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CALENDAR

OF

Queen's College and University

KINGSTON, CANADA.

FOR THE YEAR 1910-1911.

PART 1.



INCORPORATED BY ROYAL CHARTER A.D. 1841.

KINGSTON :
PRINTED FOR THE UNIVERSITY BY THE BRITISH WHIG,
1910.

This Calendar is for the use of persons intending to take a University course in *Arts* or *Theology*.

For *Medical* Calendar write Dr. A. R. B. Williamson, Kingston, Ontario.

For *Science* Calendar (School of Mining), including all courses in Engineering, write George Y. Chown, B.A., Kingston, Ontario.

The *Educational Courses*, under agreement with the Ontario, Education Department, are accepted as the professional courses for (a) First Class Public School Certificate; (b) High School Assistant's Interim Certificate, and (c) Specialist's Interim Certificate. For Calendar write George Y. Chown, B.A., Kingston, Ontario.

For lists of graduates, students, scholarships and prizes and pass lists, all faculties, see complete Arts Calendar.

The complete Arts Calendar and the Examination Papers, all Faculties, will be issued in July. Thereafter copies, twenty-five cents for Calendar (by post twelve cents extra) and fifty cents for Examination Papers (by post twelve cents extra) may be had on application to the Registrar, George Y. Chown, B.A., Kingston, Ontario, to whom all enquiries for information and letters regarding Arts, Science, Education and Theology courses should be addressed.

**Queen's University
Library**

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ACADEMIC YEAR.

1910.

- May 23—Notice of intention to complete for Matriculation Scholarships to be given in writing to the Registrar.
- June 28.—Matriculation examinations begin at the University and every Collegiate Institute and High School in Ontario.
- Sept. 1—Applications accompanied by fee for Supplemental Pass or Matriculation examinations to be made to the Registrar.
- “ 13—Arts Supplemental Pass examinations begin.
- “ 15—Supplemental Matriculation examinations begin.
- “ 28—Classes open.
- Oct. 5—Candidates for B.D., Supplemental and Matriculation examinations in Theology must give notice of their intention to appear.
- “ 16—University Day.
- “ 24—B.D. Supplemental and Matriculation examinations in Theology begin.
- “ 31—Classes in Theology open.
- Dec. 22—Christmas Holidays begin.

1911.

- Jan. 4—Classes re-open.
- March 1—Holiday (Ash Wednesday).
- “ 21—Time expires for receiving Theses for Ph.D., D.Sc. and Essays for University Prizes.
- “ 29—Class work closes.
- April 3—Examinations begin.
- “ 7—Class work in Theology closes.
- “ 11—Examinations in Theology begin.
- “ 24—Statutory Meeting of Senate for conferring Degrees, &c.
- “ 26—Convocation for distributing Prizes, announcing Honours and laureating graduates.

UNIVERSITY OFFICERS.

BOARD OF TRUSTEES.

Retire April, 1914.

*R. VASHON ROGERS, B.A., LL.D., K.C.....	Kingston.
†A. SHORTT, M.A.....	Ottawa

Retire April, 1913.

Rev. G. M. MILLIGAN, B.A., D.D., LL.D.....	Toronto.
Hon. Mr. JUSTICE MACLENNAN, LL.D.	Toronto
FRANCIS H. CHRYSLER, B.A., K.C.....	Ottawa.
J. ROBERTS ALLAN.....	Ottawa.
JOHN CHARLTON.....	Lynedoch.
Rev. JOHN HAY, B.A., B.D.....	Renfrew.
*DONALD M. MCINTYRE, B.A., K.C.....	Kingston.
†Rev. EBER CRUMMY, B.Sc., D.D.....	Winnipeg.

Retire April, 1912.

†Hon. WM. HARTY	Kingston
*P. C. MCGREGOR, B.A., LL.D.....	Almonte.
Rev. M. MACGILLIVRAY, M.A., D.D.....	Kingston.
Rev. JOHN MACKIE, M.A., D.D.....	Kingston.
G. M. MACDONNELL, B.A., K.C.....	Kingston.
HUGH WADDELL.....	Peterborough.
JOHN MCINTYRE, M.A. K.C.....	Kingston.
R. MEIGHEN.....	Montreal

Retire April, 1911.

*JAMES DOUGLAS, B.A., LL.D.....	New York.
†Rev. A. GANDIER, M.A., D.D.	Toronto
Rev. W. T. HERRIDGE, D.D.....	Ottawa.
Rev. D. R. DRUMMOND, M.A.....	Hamilton.
Rev. W. J. CLARK.....	Westmount.
SHERIFF MACLENNAN, B.A.....	Lindsay.
Sir SANDFORD FLEMING, K.C.M.G., LL.D.....	Ottawa.
D. B. MACLENNAN, M.A., K.C.....	Cornwall.

Those marked * are elected by University Council.

Those marked † are elected by graduates.

Retire April, 1910.

Rev. THOMAS WARDROBE, D.D.....	58 Redpath St., Montreal.
Rev. ROBERT CAMPBELL, M.A., D.D.....	Montreal.
Rev. E. D. McLAREN, M.A., D.D.....	Toronto.
ANDREW T. DRUMMOND, B.A., LL.D.....	Toronto.
J. K. MACDONALD.....	Toronto.
A. E. MALLOCH, M.D.....	Hamilton.
GEORGE GILLIES, B.A.....	Toronto.
*H. A. CALVIN.....	Kingston.
†J. S. WILLISON, LL.D.	Toronto
HON. MR. JUSTICE MACLENNAN, LL.D.....	Chairman.
GEO. Y. CHOWN, B.A.....	Secretary-Treasurer.

The Annual Meeting of the Board will be held in the Senate Chamber on the evening of Wednesday, April 26th.

Those marked * are elected by University Council.

Those marked † are elected by graduates.

UNIVERSITY COUNCIL.

The Council consists of the Chancellor, the Trustees, the members of the Senate, and an equal number of elective members.

The Chancellor is elected by the Council, except when two or more candidates are nominated, in which case the election is by registered graduates and alumni. He holds office for three years, and, as highest officer of the University, presides at meetings of the Council and Convocation, and at statutory meetings of Senate. In his absence he is represented by the Vice-Chancellor.

Of the elective members eight retire annually, except in every sixth year when ten retire. Successors are elected by registered graduates and alumni. Retiring members may be re-elected.

The Council has power to elect five trustees (one trustee retiring annually); to discuss all questions relating to the College and its welfare; to make representations of its views to the Senate or Board of Trustees; to decide on proposals for affiliation and to arrange all matters pertaining to the installation of the Chancellor, to its own meetings and business, the meetings and proceedings of Convocation, and the fees for membership, registration and voting.

Convocation for the conferring of degrees, etc., will be held upon Wednesday, April 26th, 1911.

ELECTIVE MEMBERS IN THE ORDER OF THEIR RETIRING.

Retire 1915	FRANCIS KING, M.A.....	Kingston
	W. F. NICKLE, B.A.....	Kingston
	REV. R. LAIRD, M.A.....	Kingston
	D. D. CALVIN	Quebec
	REV. D. STRACHAN, B.A.	Toronto
	T. H. FARRELL, M.D.....	Utica, N.Y.
	REV. JAMES BINNIE, M.A., B.D.....	Tweed
	ANDREW HAYDON, M.A.....	Ottawa
	J. B. TURNER, M.A.	Hamilton
Retire 1914	J. H. MILLS, M.A.....	Waterford
	J. M. FARRELL, B.A.....	Kingston
	*H. A. CALVIN	Kingston
	*R. V. ROGERS, K.C., B.A., LL.D.....	Kingston
	E. R. PEACOCK, M.A.	Toronto
	*JAS. DOUGLAS, B.A., LL.D.....	New York
	REV. J. K. MACMORINE, M.A., D.D.	Kingston
	REV. S. HARPER GRAY, B.A.....	Dundas
	A. G. FARRELL, B.A.	Moose Jaw, Sask.

Retire 1913	H. M. MOWAT, B.A., LL.D., K.C.....	Toronto
	W. L. GRANT, M.A.	Oxford, Eng.
	REV. JAS. WALLACE, M.A.	Lindsay
	H. R. DUFF, M.D.	Kingston
	C. F. HAMILTON, M.A.	Ottawa
	G. F. MACDONNELL, M.A.	Toronto
	F. J. POPE, M.A., Ph.D.	New York
	E. C. WATSON, M.A., M.D.	Detroit
Retire 1912	*P. C. MCGREGOR, B.A., LL.D.	Almonte
	REV. EBER CRUMMY, D.D.....	Toronto
	R. S. MINNES, M.A., M.D.....	Ottawa
	J. MCD. MOWAT, B.A.....	Kingston
	REV. J. HAY, M.A., B.D.....	Renfrew
	JAMES A. MINNES, B.A.....	Kingston
	REV. T. C. BROWN, M.A.....	Toronto
	MISS A. E. MARTY, M.A.....	Ottawa
Retire 1911	*D. M. MCINTYRE, B.A., K.C.	Kingston
	REV. J. D. BOYD, B.A.....	Kingston
	REV. JAMES H. TURNBULL, M.A.....	Ottawa
	G. F. HENDERSON, B.A., K.C.	Ottawa
	REV. J. CUMBERLAND, M.A.....	Stella
	A. H. BEATON, B.A.....	Toronto
	REV. JAMES ANTHONY, M.A.....	Waterdown
	MISS E. FITZGERALD, M.A.....	Niagara Falls, Ont.
Retire 1910	JOHN MARSHALL, M.A.....	Kingston
	J. R. LAVELL, B.A.....	Strathcona, Alta.
	REV. JAMES CARMICHAEL, D.D.....	King
	W. A. LOGIE, M.A., LL.B.....	Hamilton
	JUDGE FRALECK, B.A.....	Belleville
	R. H. COWLEY, M.A.....	Ottawa
	R. S. O'LOUGHLIN, M.A.....	New York
	REV. W. W. PECK, M.A., LL.B.....	Arnprior

* The five names thus marked are the Council's elected representatives on the Board of Trustees.

CHANCELLOR:

SIR SANDFORD FLEMING, C.E., K.C.M.G., LL.D.

PRINCIPAL AND VICE-CHANCELLOR:

VERY REV. DANIEL MINER GORDON, M.A., D.D.

VICE-PRINCIPAL:

JOHN WATSON, M.A., LL.D.

REGISTRAR:

GEORGE Y. CHOWN, B.A.

OFFICERS OF INSTRUCTION.

I.—In Theology.

- Very Rev. D. M. Gordon, D.D., LL.D.... Primarius Professor of Divinity.
Rev. D. Ross, D.D..... Professor of Apologetics and New Testament Criticism and Dean of Theological Faculty.
Rev. W. G. Jordan, B.A., D.D..... Professor of Hebrew and Old Testament Criticism.
Rev. E. F. Scott, M.A., D.D..... Professor of Church History and History of Dogma.
Rev. R. Laird, M.A..... Professor of Practical Theology.

II.—In Arts.

- Nathan F. Dupuis, M.A., F.B.S., Edin... Professor of Mathematics.
Rev. George D. Ferguson, B.A..... Emeritus Professor of History.
John Watson, M.A., LL.D..... Professor of Moral Philosophy.
D. H. Marshall, M.A., F.R.S.E..... Emeritus Professor of Physics.
James Cappon, M.A..... Professor of English Language and Literature, and Dean of Arts Faculty.
J. Macgillivray, Ph.D. (Leipsic)..... Professor of German.
S. W. Dyde, M.A., D.Sc., LL.D..... Professor of Mental Philosophy.
Rev. Jas. Fowler, M.A., F.R.S.C..... Emeritus Professor of Botany.
A. P. Knight, M.A., M.D..... "The John Roberts" Professor of Animal Biology and Physiology.

- W. G. Jordan, B.A., D.D.....Professor of Hebrew.
- P. G. C. Campbell, M.A. (Oxon).....Professor of Romance Languages.
- T. Callander, M.A. (Abdn. Oxon.).....Professor of Greek.
- W. B. Anderson, M.A. (Abdn. Cantab.) . Professor of Latin.
- J. L. Morison, M.A.....Professor of History.
- W. T. MacClement, M.A.....“The John Roberts Allan” Professor of Botany.
- Oscar Skelton, M.A., Ph.D.....“The Sir John A. MacDonald” Professor of Political and Economic Science.
- John Marshall, M.A.....Associate Professor of English Language and Literature.
- John Matheson, M.A.....“The William Nickle” Associate Professor of Mathematics.
- E. W. Patchett, B.A. (Cantab.).....“The Wm. McKenzie” Associate Professor of Modern Languages.
- G. W. Mitchell, M.A.....Associate Professor of Classics.
- W. W. Swanson, M.A., Ph.D.....Assistant Professor in Political Science.
- H. T. Wallace, B.A., B.D.....“The Robert Waddell” Assistant Professor in Hebrew.
- J. F. Macdonald, M.A.....Assistant Professor in English
- W. E. McNeill, M.A., Ph.D. (Harv.).....Assistant Professor in English.
- A. S. Ferguson, B.A. (Oxon.) M.A. (St. A.), Assistant Professor in Philosophy.
- W. A. Bain, B.A. (Oxon.) M.A. (Abdn.) . Assistant Professor in Classics.
- W. H. Houser, M.A.....Lecturer in Mathematics.

III.—In Arts and Practical Science.

- Nathan F. Dupuis, M.A., F.B.S., F.R.S.C. Professor of Mathematics and Mechanism and Dean of Faculty of Science.
- Wm. L. Goodwin, B.Sc. (Lond.) D.Sc. (Edin.), F.R.S.C.....Professor of Chemistry, Director of School of Mining.
- D. H. Marshall, M.A., F.R.S.E.....Emeritus Professor of Physics.
- William Nicol, M.A.....Professor of Mineralogy.
- A. L. Clark, M.A., Ph.D.....Professor of Physics.
- M. B. Baker, B.A., B.Sc.....Professor of Geology.
- John Waddell, B.A., D.Sc., Ph.D.....Assistant Professor of Chemistry.

W. O. Walker, M.A.....	Associate Professor of Organic Chemistry.
W. C. Baker, M.A.....	Assistant Professor in Experimental Physics on "The Robert Waddell" Foundation.
L. F. Guttman, Ph.D.....	Assistant Professor of Chemistry
L. A. H. Warren, M.A.....	Lecturer in Applied Mathematics.
C. F. Lorenz, M.A.....	Lecturer in Physics.
R. J. Manning, Ph.D.....	Lecturer in Chemistry.
J. D. Bonner, M.A.....	Lecturer in Chemistry.
J. K. Robertson, M.A.....	Lecturer in Physics.
E. H. Herriot, B.Sc.....	Lecturer in Mathematics.
S. N. Graham, B.Sc.....	Lecturer in Mineralogy.
B. Rose, B.Sc.....	Lecturer in Geology.

III.—Examiners in Law.

J. L. Whiting, M.A., K.C.....	Criminal Law.
R. Vashon Rogers, B.A., K.C., LL.D....	Common Law.
G. M. Macdonnell, B.A., K.C.....	The Law of Real Property.
John McIntyre, M.A., K.C.....	Medical Jurisprudence.

OTHER OFFICERS.

Registrar of University Council.

FRANCIS KING, M.A.

Observatory Board.

THE PRINCIPAL.

Curators of Library.

PROFESSORS ROSS, KNIGHT, WATSON AND ANDERSON.

Librarian.

MISS LOIS SAUNDERS.

Curators of Museum.

PROFESSORS OF BIOLOGY AND GEOLOGY.

Examiners in Gaelic.

REV. M. MACGILLIVRAY, M.A., AND JOHN MATHESON, M.A.

Janitor.

JOHN V. BURTON.

TIME TABLE—ARTS.

8	9	10	11
MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.
<p>(A) <i>Jun. English.</i> <i>Politics.</i> <i>Senior Hebrew.</i> <i>Senior Mathematics.</i> P. German. P. Mineralogy. P. & F. Chemistry.</p>	<p>(B) <i>Jun. English.</i> <i>Moral Philosophy.</i> <i>Senior Hebrew.</i> P. & F. German. I. & F. Philosophy. F. Animal Biology. P. Chemistry.</p>	<p>(A) <i>Jun. English.</i> <i>Moral Philosophy.</i> <i>Senior Hebrew.</i> P. & F. German. I. & F. Philosophy. F. Animal Biology. P. Chemistry.</p>	<p>(B) <i>Jr. English.</i> <i>S. Chem. Lab.</i> <i>Junior Hebrew.</i> P. German. P. Mineralogy.</p>
<p><i>Senior Physics.</i> (A) <i>Mental Philosophy.</i> <i>English History.</i> <i>Biology.</i> P. & F. Pol. Science. P. & F. Chemistry.</p>	<p><i>Senior Physics.</i> (B) <i>Mental Philosophy.</i> <i>Moral Philosophy.</i> <i>European History.</i> (B) <i>Jun. French.</i> I. & F. Philosophy. F. Pol. Science. F. Animal Biology. F. Chemistry.</p>	<p>(A) <i>Mental Philosophy.</i> <i>English History.</i> (A) <i>Jun. French.</i> <i>Biology.</i> (B) <i>Jun. French.</i> P. & F. Pol. Science. P. Chemistry.</p>	<p>(A) <i>Mental Philosophy.</i> <i>S. Chem. Lab.</i> <i>Moral Philosophy.</i> <i>English History.</i> <i>Biology.</i> (B) <i>Mental Philosophy.</i> P. Phil. Science. P. & F. Pol. Science. F. Chemistry.</p>
<p><i>Junior Latin.</i> <i>Senior French.</i> <i>Economics.</i> P. & F. Latin. P. & F. German. P. History. P. & F. Botany. P. & F. An. Biology. P. & F. Chemistry.</p>	<p><i>Junior Latin.</i> <i>Senior French.</i> (A) <i>Sr. English.</i> <i>Politics.</i> <i>Botany.</i> P. & F. Latin. P. & F. German. P. History. P. & F. Botany. P. & F. An. Biology. P. & F. Chemistry.</p>	<p><i>Junior Latin.</i> <i>Senior French.</i> <i>Economics.</i> <i>Botany.</i> P. & F. Latin. P. & F. German. P. History. P. & F. Botany. P. & F. An. Biology. P. & F. Chemistry.</p>	<p><i>Junior Latin.</i> <i>Senior French.</i> <i>Economics.</i> (B) <i>Botany Lab.</i> P. & F. Latin. P. & F. German. P. History. P. Physics. P. & F. Botany. P. & F. An. Biology. P. & F. Chemistry.</p>
<p><i>Senior Latin.</i> <i>Junior German.</i> <i>Junior Chemistry.</i> P. & F. Greek. P. & F. English. P. & F. Botany. P. & F. Geology. P. & F. Chemistry.</p>	<p><i>Senior Latin.</i> <i>Junior German.</i> <i>Senior Chemistry.</i> P. & F. Greek. P. & F. English. P. & F. Physics. P. & F. Botany. P. & F. Geology. P. & F. Mineralogy.</p>	<p><i>Senior Latin.</i> <i>Junior German.</i> <i>Sr. Mathematics.</i> P. & F. Greek. P. & F. English. P. & F. Physics. P. & F. Botany. P. & F. Geology. P. & F. Mineralogy.</p>	<p><i>Sr. Lat.</i> <i>German.</i> <i>Junior Chemistry.</i> <i>S. Chem. Lab.</i> P. & F. Greek. P. & F. English. P. & F. Botany. P. & F. Geology. F. Chemistry.</p>

P.—Denotes Preliminary Honours; I.—Intermediate Honours; F.—Final Honours.

TIME TABLE—ARTS—(Continued.)

HOUR.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
12	<p>Junior Greek. Senior Greek. Senior German. (A) Jun. English. (A) Jun. French. P. & F. French. P. & F. Philosophy. P. & F. An. Biology.</p>	<p>Junior Greek. Senior Greek. Senior German. (A) Jun. English. (A) Jun. French. P. & F. French. P. & F. Philosophy. P. & F. An. Biology.</p>	<p>Junior Greek. Senior Greek. Senior German. (B) Jr. English. P. & F. French. I. & F. Philosophy. P. & F. An. Biology.</p>	<p>Junior Greek. Senior Greek. Senior German. (B) Jr. English. P. & F. French. I. & F. Philosophy. P. & F. An. Biology.</p>	<p>Junior Greek. Senior Greek. Senior German. Prep. Latin. P. & F. Latin. P. & F. French. P. & F. An. Biology. F. Philosophy.</p>	F. Chemistry.
1		<p>P. & F. Physics. Botany (Med.) F. Mineralogy.</p>		<p>F. Physics. Botany (Med.)</p>	F. Philosophy.	
2	<p>(C) Junior Mathematics. (B) Jun. French. (A) Senior Mathematics. (A) Senior English. (B) Sr. English. F. Botany. F. Chemistry.</p>	<p>(A) Jun. French. (B) Sr. English. Geology. Botany (Med.) F. Chemistry. F. Mineralogy.</p>	<p>Senior French. (A) Sr. English. (C) Junior Mathematics. I. & F. French. I. & F. Philosophy. P. Chemistry.</p>	<p>(A) Jun. French. (B) Jun. French. (A) Sr. English. (B) Sr. English. Geology. Botany (Med.) F. Physics. P. Mineralogy.</p>	<p>(A) Jun. French. (B) Jun. French. (A) Sr. English. (C) Junior Mathematics. (B) Sr. English. Mineralogy.</p>	
3	<p>(A) Junior Mathematics. (B) Junior Mathematics. Colonial History. P. English. P. Philosophy. P. & F. Chemistry. Anglo-Saxon.</p>	<p>Junior Physics. Colonial History. I. & F. Philosophy. P. & F. Chemistry.</p>	<p>(A) Junior Mathematics. (B) Junior Mathematics. (B) S. Chem. Lab. P. Chemistry.</p>	<p>Junior Physics. Colonial History. (C) Biology Lab. I. & F. Philosophy. P. Chemistry. Anglo-Saxon.</p>	<p>(A) Junior Mathematics. (B) Junior Mathematics. (A) J. Chem. Lab. European History. (D) Biology Lab. Mineralogy.</p>	
4	<p>Prep. German. Eng. Bible. F. Chemistry. F. Mineralogy.</p>	<p>Prep. German. Prep. French. English Bible. P. & F. Chemistry.</p>	<p>Ch. S. Lab. P. Chemistry.</p>	<p>Prep. French. Prep. German. University Y. M. C. A.</p>	S. Chem. Lab.	

P.—Denotes Preliminary Honours; I.—Intermediate Honours; F.—Final Honours.

TIME TABLE—THEOLOGY.

HOUR.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.
8	Sr. Hebrew.	Jr. Hebrew.	Sr. Hebrew.	Jr. Hebrew.	Jr. Hebrew.
9		*O.T.Criticism	*N.T.Criticism	*O.T.Criticism	Pract.Theology.
10	N. T. Criticism	History of Dogma.	O.T.Criticism.	N. T. Criticism	O.T.Criticism.
11	O. T. Theology.	Syst. Theology.	Syst. Theology.	Ch. History.	Ch. History.
12	Apologetics.	Pract. Theology	N. T. Theology.	Pract.Theology.	Apologetics.
3		Public Speaking.	N.T.Language.		Sr. Hebrew.
4	Eng. Bible.		*Ch. History.		

*Denotes Honours. Classes for post graduate work will be arranged at the beginning of the session.

JUNIOR AND SENIOR MATRICULATION EXAMINATIONS.

SEPTEMBER, 1910.

	9 A.M.	2 P.M.
Thursday, 15th Sept.—English Composition.		Eng. Literature.
Friday, 16th " —History.		Chemistry.
Saturday, 17th " —Latin Authors.		Latin Grammar & Composition.
Monday, 19th " —Physics.		
Tuesday, 20th " —Geometry.		Algebra.
Wednesday, 21st " —French Authors.		French Grammar & Composition.
Thursday, 22nd " —Greek Authors.		Greek Grammar & Composition.
	German Authors.	German Grammar & Composition.
Friday, 23rd " —Botany.		Animal Biology.

PASS SUPPLEMENTAL EXAMINATIONS.

SEPTEMBER, 1910.

	9 A.M.	2 P.M.
Tuesday, 13th Sept.—Jr. Latin.		Sr. Latin.
Wednesday, 14th " —Economics.		Politics.
Thursday, 15th " —Jr. English.		Sr. English.
Friday, 16th " —English History.		Modern History.
		History.
Saturday, 17th " —Mental Philosophy.		Moral Philosophy.
Monday, 19th " —Jr. Physics.		Sr. Physics.
Tuesday, 20th " —Jr. Mathematics.		Sr. Mathematics.
Wednesday, 21st " —Mineralogy.		Geology.
	*Jr. French.	**Sr. French.
Thursday, 22nd " —Jr. Greek.		Sr. Greek.
	*Jr. German.	**Sr. German.
Friday, 23rd " —Botany.		Animal Biology.
Saturday, 24th " —Jr. Chemistry.		Sr. Chemistry.
Tuesday, 25th Oct.—Jr. Hebrew.		Sr. Hebrew.

*8.30 Dictation.

**1.30 Dictation.

PASS EXAMINATIONS.

APRIL, 1911.

ARTS.

9 A.M.

2 P.M.

Monday,	3rd April—	*Jr. French.	**Sr. French.
Tuesday,	4th	" —Jr. Chemistry.	Sr. Chemistry.
Wednesday,	5th	" —Jr. English.	Mineralogy.
Thursday,	6th	" —Sr. English.	Geology.
Friday,	7th	" —Jr. Latin.	Sr. Latin.
Saturday,	8th	" —Jr. Mathematics.	Modern History.
Monday,	10th	" —Sr. Mathematics.	English History.
Tuesday,	11th	" —Economics.	Politics.
Wednesday,	12th	" —Mental Philosophy.	Moral Philosophy.
Thursday,	13th	" —Jr. Physics.	Sr. Physics.
Saturday,	15th	" —*Jr. German.	**Sr. German.
Monday,	17th	" —Jr. Greek.	Sr. Greek.
Tuesday,	18th	" —Botany.	Animal Biology.
Wednesday,	19th	" —Jr. Hebrew.	Sr. Hebrew.

Three hours allowed for each paper.

Time Table for Honour Examinations will be issued in March.

*3.30 Dictation.

**1.30 Dictation.

GENERAL ANNOUNCEMENT.

QUEEN'S COLLEGE has, under its Royal Charter, "the style and privileges of a University."

The Seventieth Session will open on Wednesday, the 28th of September, 1910.

BOARDING.—Lists of Boarding houses may be obtained from the Registrar. A residence for a limited number of women students has been recently established. Persons desiring information should write to "The Secretary of Woman's Residence, Queen's University, Kingston."

HOSPITAL PRIVILEGES.—The Governors of the Kingston General Hospital agree to give those students who take out Hospital tickets (cost, \$2) all the advantages of a private room, including room, board, attendance of nurses in training, and ordinary medicines, when requiring medical or surgical treatment, from October 1st to May 1st. These benefits are conditional on 250 students taking out tickets by November 1st.

REGISTRATION.—All students are required to have their names entered in the University Register. Before registration they must pay the required fees.

ATTENDANCE AT CHURCH.—All students are expected to attend the churches to which they profess to belong, and produce certificates of attendance from their clergymen when required.

THE LIBRARY contains about 50,000 volumes. Students are entitled to the use of it subject to by-laws.

Intra-mural students are entitled to obtain books from the Library. Not more than three books may be taken out at one time. Books must be kept for one week only, except by special arrangement. Library books must not be used in the class room.

The Consulting Libraries I and II, containing dictionaries, encyclopedias, books prescribed for essays and books of reference, are open to students, subject to certain regulations. A special section is devoted to Mental and Moral Philosophy, and all students taking these subjects are expected to provide themselves with keys for the cupboards, for which a deposit of \$1.00 is required.

Extra-mural students may obtain books from the Library with the exception of those marked in the Calendar as text-books, which must be purchased by students for themselves and which cannot be supplied from the University Library. Books may be kept for two weeks from date of receiving, except by special arrangement. A deposit is required of \$2.00 for one book, \$4.00 for two, and \$5.00 for three. Deposit may be withdrawn at any time. There is no fee, but the postage is paid by the borrower, being deducted from deposit before returning. For further particulars and regulations apply to the Librarian. Special arrangements are made for supplying the necessary books to extra-mural students in the Ph.D., B. Paed. and D. Paed. courses.

All communications concerning books, and all deposits must be made directly to the Librarian.

J. McDonald Mowat, Esq., B.A., Kingston, Ont., agreed to give the sum of \$25.00 annually to the Political Science Department to be expended in the purchase of books. For the present this sum will go towards obtaining the British Blue Books. In this and all donations of a similar nature, the books will be marked with the donor's name, and the department for which they are given.

THE MUSEUM is devoted to Biological, Ethnological and Historical collections.

The University Herbarium contains about 12,000 mounted plant specimens, and the Fowler Herbarium about 18,000 specimens, together illustrating the flora of North America, Europe, Asia, South Africa, and Australia.

The Zoological collection contains 36 mammals of Canada. 200 birds of Canada, 60 fish, about 350 invertebrates, a small collection of reptiles, another of insects, and about 3,000 shells of Mollusca.

The Ethnological collection comprises a large and complete set of specimens representing the weapons, utensils, dress, and ornaments of the aborigines of Queensland, New Guinea, Fiji, and the New Hebrides. There are also small collections illustrating the art and manufactures of Central India, and Formosa, as well as of the Indians and Esquimaux of North America.

The Historical collection consists chiefly of ancient coins, weapons, embroidery, etc., together with a number of interesting souvenirs of the siege of Port Arthur.

HOODS.—Each degree has its distinctive hood, as follows: B.A., black, bordered with red silk; M.A., scarlet; B.Sc., black silk, bordered with yellow silk; D.Sc., black silk, lined with blue silk, bordered with white; M.D., scarlet, bordered with white; B.D., white, bordered with crimson plush; D.D., black silk, lined with white silk; LL.B., blue, bordered with white fur; LL.D., black silk, lined with blue silk; Ph.D., black silk, lined with purple, bordered with white.

DEGREES.—Applications for degrees will be considered only when returns for April and September examinations are submitted and at the meeting of Senate immediately preceding Christmas vacation.

FEES.

Graduation and spring examination fees must be paid before March 23rd; supplemental examination fees before September 1st; all other fees on or before October 9th. Intra-mural students should register promptly on the opening of the session. Students failing to register in person within ten days of the opening of the session shall pay an extra registration fee of \$3. In order to write on examinations, students who have been registered in former sessions must be registered and in attendance by November 15th, or, if unable to attend until after Christmas, must register as extra-mural students by October 21st. Fees thus paid will be applied on intra-mural fees in January.

I. FACULTY OF ARTS.

Senior Matriculation Examination	\$10 00
Senior Matriculation on <i>pro tanto</i> certificate	10 00
Junior Matriculation Examination	5 00
Arts Society fee payable by male students on registration.....	1 00
Athletics	per session \$3 00
Registration	" 10 00
Class Fees	" 25 00
†Any class except those mentioned below	" 8 00
†Junior Chemistry	" 12 00
†Senior Chemistry	" 12 00
Pass Examination, April or September	" 10 00
Honour Examination	" 12 00
Special for Intra-mural students who write away from University.....	5 00
Establishing a new examination centre	10 00
Change of classes after registration.	2 00

SPECIAL FEES.

Laboratory—Honour Qualitative Analysis	per session \$15 00
" Honour Quantitative Analysis	" 15 00
" Physics, Pass or Prelim. Honour.....	" 3 00
" Physics, Final or Exper. Honour	" 10 00
" Junior or Senior Chemistry	" 3 00
" Botany, Pass Course	" 3 00
" Botany, Honour Course	" 5 00
" Animal Biology, Pass Course	" 5 00
" Animal Biology, Preliminary Honours	" 15 00
" Animal Biology, Final Honours	" 10 00
Junior Philosophy (correcting essays).....	1 00
Matriculation Certificate	5 00
Certificate of standing	1 00
Graduation—Bachelor of Arts (B.A.).....	10 00
" Master of Arts (M.A.).....	20 00
" Doctor of Philosophy (Ph. D.).....	50 00
" Doctor of Science (D.Sc.).....	50 00
Admission ad eundem gradum (B.A.).....	20 00
" " statum	10 00

Students taking Physics, Chemistry, Geology or Mineralogy must register in the School of Mining, pay the fee of \$1.00 and make a deposit of \$5.00.

†These fees apply only to unmatriculated students who do not pay full class fees.

II. FACULTY OF PRACTICAL SCIENCE.

Matriculation Examination (September)	\$ 5 00
Registration	per session 10 00
Athletics	" 3 00

FEES FOR A COURSE.

These fees cover all class and laboratory fees for a course.

First Year Students	Per Session \$75 00
Second Year Students	" 85 00
Third Year Students	" 95 00
Fourth Year Students	" 95 00
Students registered 1906-7 to 1908-9 will pay a fee of \$60 per session.	
Students registered 1905-6 or previously will pay a fee of \$50 per session.	
Pass Examination, April or September	10 00

FOR STUDENTS NOT PAYING CLASS FEES AS ABOVE.

Any Class	per session \$12 00
Laboratory—Qualitative Analysis	" 15 00
" Quantitative Analysis	" 15 00
" Mechanical and Engineering	" 15 00
" Honour Practical Physics	" 10 00
" Pass Practical Physics	" 2 00
" Petrography	" 5 00
" Assaying	" 5 00
Certificate of standing	1 00
Graduation—B.Sc.	20 00
" M.E.	20 00
Admission ad eundem statum	10 00

†Any student registered in 1905 or previously will only require to pay \$50 class fees per session.

III. FACULTY OF MEDICINE.

Matriculation Examination Fee	\$ 5 00
Registration Fee (for those taking partial courses) 1st year.....	5 00
Each year thereafter	2 00
Sessional Fee for each of the first four years	100 00

The Sessional Fee, including Classes, Registration, Athletics, Library, Examination, Laboratories, and the required amount of dissection material, is \$100.00 per session. If not paid in full before Nov. 1st, \$105.00. Special arrangements will be made with those who do not take the full course in any year. All fees must be paid by Feb. 1st.

Fifth year	\$ 50 00
Supplemental Examinations (each year)	10 00
Hospital Ticket—full course, payable with second year's fees.....	25 00
Hospital Ticket—one session	9 00
<i>Ad eundem statum</i>	10 00
Graduation—M.B.	20 00
—M.D., C.M.	30 00
—D.Sc.	50 00
—D.P.H.	20 00
Exclusive use of Microscope, per session	5 00

IV.—FACULTY OF THEOLOGY.

Registration	per session	\$ 5 00
Matriculation	"	2 00
Athletics	"	3 00
Pass Examination	"	3 00
Supplemental Pass Examination	"	3 00
B.D. Examination	"	6 00

SPECIAL FEES.

Testamur	\$ 2 00
Graduation.—Bachelor of Divinity	20 00
Admission ad eundem statum	10 00

V. FACULTY OF EDUCATION.

General or Advanced Course (with or without course for Specialist), including library, gymnasium and examination	per session	\$15 00
Examination, when not taken during regular session, or taken by students not in attendance—Part I, or II.....	"	10 00
Parts I and II	"	15 00
Specialist examination taken alone, each paper.....	"	5 00
Inspector's examination	"	15 00
Registration B. Paed or D. Paed	"	10 00
Tutorial assistance, per section	"	5 00
Examination B. Paed or D. Paed	"	10 00
Diploma	"	2 00
Graduation, Bachelor of Pedagogy (B.Paed.).....	"	20 00
" Doctor of Pedagogy (D.Paed.)	"	25 00

VI. FACULTY OF LAW.

Registration	per session	\$10 00
Examination	"	10 00

SPECIAL FEES.

Graduation.—Bachelor of Laws (LL.B.).....	\$ 20 00
Admission ad eundem gradum	20 00
Admission ad eundem statum	10 00

VII. AGRICULTURE.

For information apply to G. G. Publow, Superintendent of Dairy School.

FACULTY OF ARTS.

ARTICLE I.—PASS MATRICULATION.

GENERAL REGULATIONS.

1. The Classes in the University are open to unmatriculated students but candidates for a degree must pass the matriculation examination or an examination accepted by the Senate as equivalent before being admitted to examination on the University courses.

2. Any person presenting a Departmental certificate of matriculation will be admitted as an undergraduate upon paying the registration fee.

3. Any person who is permitted to attend on presentation of an Ontario Junior Leaving or Entrance to Normal School certificate or equivalent certificate from any of the other Provinces which does not include Latin, must take Latin for one session and matriculate in this subject before entering the Junior class. If he has not passed the Matriculation examination or its equivalent in Greek, French or German, he must do so before taking the Junior class examination. An examination of students qualifying for Matriculation in any of the four subjects shall be held at some time during the session, the date to be determined by the professors. Students who have passed the Matriculation examination in Latin, Greek, French, or German before the close of the session may take the Junior class extra-murally during the summer and may present themselves for examination in September.

4. The examination in July will be that conducted for the Universities by the Education Department, known as the Departmental Junior Matriculation Examination. The examination will be held at Queen's University and at the various Collegiate Institutes and High Schools in Ontario. Candidates for this examination, if they propose to write at a Collegiate Institute or High School, must notify the Public School Inspector of their city or county, and pay him the fee before May 21st. Candidates proposing to write at Queen's University must send the required notice to the Registrar by May 21st, accompanied by the fee.

5. A second examination will begin at Queen's University on September 15th, 1910. Notice of intention to appear at this examination, together with the fee, must be sent to the Registrar by September 1st, on a form which will be supplied on application. A candidate failing partially in July and desiring to complete the examination in September, and who did not write at Queen's University, must send a copy of the marks obtained in the July examination, certified by the headmaster of the school at which he wrote.

6. The fees for Matriculation are:—Junior Matriculation, \$5.00; Supplemental examination, in Junior Matriculation subjects in which the candidate has failed, \$2.00 for each subject; total fee not to exceed \$5.00. Senior Matriculation, \$10.00.

7. All candidates for Junior Matriculation shall take English Composition, English Literature, Algebra, Geometry, History (British, Canadian and Ancient), Latin, and any two of Greek, French, German, Experimental Science (Physics and Chemistry).

8. In 1911 the pass standard shall be forty per cent of the marks assigned to a paper with an average of fifty per cent. A candidate who has failed to obtain pass standing in not more than three papers may complete Matriculation by passing in these papers at the supplemental examinations of the following September, otherwise he must repeat the examination in its entirety, unless he has obtained the total average mark for the whole examination, in which case only the subjects failed in must be repeated.

In 1912 the pass standard shall be 40 per cent of the marks assigned to a paper with an average of sixty per cent.

9. In determining results the confidential reports of the Principals are hereafter to be considered.

10. Candidates who matriculate in any University in the British Empire will be allowed to enter upon a course without further examination. Matriculation Examination from Universities in other countries will be accepted *pro tanto*.

11. Teachers' examinations are accepted *pro tanto* in lieu of the Matriculation Examination, *i.e.*, in so far as the subjects correspond as follows:—

Ontario.....	Jr. Leaving, Entrance to Normal School.
Prince Edward Island...	Second Class.
Nova Scotia.....	Grade XI.
New Brunswick.....	Second Class.
Quebec.....	{ Academy Grade III. University School AA
Manitoba.....	Second Class.
Alberta.....	Grade VII.
Saskatchewan.....	Grade VII.
British Columbia.....	Intermediate.

12. In the case of students over the age of 21 attending the university, the Senate may postpone the Matriculation examination.

13. Junior Leaving certificates will be accepted *pro tanto* at the Junior Matriculation examination.

14. Matriculation scholarships will be awarded on the results of the July Departmental Matriculation examination. See article on Matriculation Scholarships.

15. Candidates for Scholarships must notify the Registrar not later than May 21st, stating distinctly where they intend to write, and declaring their intention to enter, if successful, on a course of study in Queen's University.

SPECIAL RATES FOR STUDENTS ATTENDING QUEEN'S UNIVERSITY OR THE SCHOOL OF MINING.

Territory:—Between Kingston and any station on the Canadian Pacific Railway, the Grand Trunk Railway, the Canadian Northern Railway, or the Intercolonial Railway in Canada, either direct or over any one of the other lines, where the one way regular first-class rate is \$20 or more.

Condition:—If any student is coming to attend Queen's College or the School of Mining *for the first time*, a certificate to that effect will be accepted from parent, guardian, clergyman or magistrate. Subsequently, going to or returning from Kingston, certificates must be signed by the Registrar of the University.

Rate:—One way continuous passage tickets will be issued at half the regular, first-class, one way rate, *minimum rate to be charged*.

ed, \$20. For example, if the first-class, one way rate is \$50, \$25 will be charged, but if the one way rate is less than \$40, \$20 will be collected.

Expenses of a Course:—The following statement of expenses is made from information obtained from students who have kept an account of their expenditures. Personal expenses are not included in the estimates. The average expense for class fees is taken in this estimate.

For a Session (October to May).

Board, lodging and washing	\$100 to \$150
Books and stationery	15 " 25
Incidentals	10 " 15
Class and other fees	50 " 50
	<hr/>
	\$175 \$240

These estimates are based on board, etc., at from \$3.50 to \$5.00 per week, at which rate good board may be obtained in Kingston.

The fee for graduation is not included in the estimate. Students taking Science classes will pay additional Laboratory fees.

SUBJECTS OF JUNIOR MATRICULATION.

GREEK.

Translation into English of passages from the prescribed texts, with questions thereon.

Translation at sight of simple narrative passages similar to the Xenophon prescribed.

Questions in Greek accidence and on the common rules of Greek syntax, to test the candidate's accuracy and comprehension in such matters as are needful for the intelligent reading of his texts.

The following are the prescribed texts:—

1911: Xenophon, *Philpotts and Jerram*, Easy Selections from Xenophon, chaps. 3, 4, 5; Homer, *Iliad* I, 1-350.

1912: Xenophon, *Philpotts and Jerram*, Easy Selections from Xenophon, chaps. 3, 4, 5; Homer, *Iliad* VI, 66-118 and 237 to the end.

Two papers will be set: (1) Prescribed texts; (2) translation at sight, accidence and syntax.

LATIN.

Translation at sight of passages of average difficulty from Cæsar, upon which special stress will be laid.

Translation with questions from a prescribed portion of Virgil's *Aeneid*.
Questions on Latin accidentence.

Translation into Latin of English sentences, involving a knowledge of the following principles of Latin syntax; the common use of the cases; the accusative with the infinitive; the subjunctive in simple sentences; final and result clauses; the law of sequence of tenses; the indirect question; verbs of fearing, doubting and hindering: the use of the participle, gerund and gerundive, active and passive periphrastic; indirect discourse; and the common forms of the conditional sentence. The vocabulary will be taken from the prescribed portion of *Cæsar*, and special stress will be laid upon this part of the examination. The marks assigned for the translation from prescribed authors shall not be more than 25 per cent. of the total marks assigned to the Latin papers.

Examination upon a short prescribed portion of *Cæsar*, to test the candidate's knowledge of Latin syntax and his power of idiomatic translation.

The following are the texts prescribed:—

1911: *Cæsar*, *Bellum Gallicum*, Book IV, chaps. 20-38, and Book V, chaps. 1-23; *Virgil*, *Æneid*, Book I, vv. 1-510.

1912: *Cæsar*, *Bellum Gallicum*, Book IV, chaps. 20-38, and Book V, chaps. 1-23; *Virgil*, *Æneid*, Book II, vv. 1-505.

Two papers will be set: (1) Translation at sight, *Virgil*, and accidentence. (2) Translation into Latin, syntax and idiomatic translation from prescribed *Cæsar*, etc.

ENGLISH.

Composition: An essay on one of several themes set by the examiners. In order to pass in this subject, legible writing, correct spelling and punctuation, and grammatical construction of sentences are indispensable. The candidate should also give attention to the structure of the whole essay, the effective ordering of the thought, and the accurate employment of a good English vocabulary. About two pages of foolscap is suggested as the proper length for the essay; but quality, not quantity, will be mainly regarded.

One examination paper.

Literature: Such questions only will be set as may serve to test the candidate's familiarity with, and intelligent and appreciative comprehension of the prescribed texts. The candidate will be expected to have memorised some of the finest passages. In addition to the questions on the prescribed selections others will be set on a "sight passage" to test the candidate's ability to interpret literature for himself.

One examination paper.

1911: *Tennyson*, *The Poet*, *The Lady of Shalott*, *Oenone*, *The Epic and Morte d'Arthur*, *St Agnes' Eve*, *The Voyage*, "Break, break, break," *In the*

Valley of the Cauteretz; Browning, My Last Duchess, "How they brought the good news from Ghent to Aix," Love among the Ruins, Home Thoughts from Abroad, Up at a Villa, Andrea del Sarto, The Guardian Angel, Pros-
pice, An Epistle of Karshish, Cavalier Tunes; Shakespeare, Macbeth.

1912: Celeridge, The Ancient Mariner; Wordsworth, Michael, Influence of Natural Objects, Nutting, Expostulation and Reply, The Tables Turned, The Solitary Reaper, Ode to Duty, Elegiac Stanzas, To the Rev. Dr. Wordsworth, "She was a phantom of delight," To the Cuckoo, The Green Linnet, "Bright flower! whose home," To a Skylark ("Ethereal minstrel pilgrim of the sky!"), Reverie of Poor Susan, To my Sister, "Three years she grew," September, 1819, Upon the same Occasion, and the following twelve sonnets:—"Two voices are there," "A flock of sheep that leisurely," "Earth hath not anything," "It is not to be thought of," "Fair star of evening," "O, friend, I know not," "Milton, thou shouldst," "When I have borne in memory," "Brook, whose society," "Scorn not the sonnet," "Tax not the royal Saint," "They dreamt not of a perishable home"; Shakespeare, Merchant of Venice.

GERMAN.

The candidate's knowledge of German will be tested by: (1) simple questions on grammar; (2) the translation of simple passages from English into German; (3) Translation at sight of easy passages from modern German, and (4) an examination on the following prescribed texts:—

The texts contained in the High School German Reader.

1911: *Leander*, Träumereien, pp. 45-90 (selected by Van Daell)

1912: *Baumbach*, Waldnovellen.

Two papers will be set: (1) Prescribed texts and translation at sight; questions on grammar; (2) the translation of English into German.

FRENCH.

The candidate's knowledge of French will be tested by: (1) simple questions on grammar; (2) the translation of simple passages from English into French; (3) translation at sight of easy passages from modern French, and (4) an examination on the following texts:—

Lamennais, Paroles d'un Croyant, Chaps. VII and XVII; *Perrault*, Le Maître Chat ou le Chat Botté; *Dumas*, Un Nez Gelé, and La Pipe de Jean Bart; *Alphonse Daudet*, La Dernière classe, and la Chèvre de M. Seguin; *Legouvé*, La Patte de Dindon; *Pouvillon*, Hortibus; *Loti*, Chagrin d'un Vieux Forçat; *Molière*, L'Avare, Acte III, sc. 5 (Est-ce à votre cocher . . . sous la mienne); *Victor Hugo*, Waterloo, Chap. IX; *Rouget de L'Isle*, La Marseillaise; *Arnault*, le Feuille; *Chateaubriand*, l'Exilé; *Théophile Gautier*, la Chimère; *Victor Hugo*, Extase; *Lamartine*, L'Automme; *De Musset*, Tristesse; *Sully Prudhomme*, Le Vase brisé; *La Fontaine*, Le Chêne et Le Roseau.

1911: *Labiche*, La Grammaire.

1912: *Labiche*, les Petits Oiseaux.

Two papers will be set: (1) Prescribed texts and translations at sight; questions on grammar; (2) the translation of English into French.

HISTORY.

Great Britain and Canada from 1763 to 1885, with the outlines of the preceding periods of British and Canadian history.

The geography relating to the history prescribed.

One half examination paper.

General outlines of Greek history to the fall of Corinth.

General outlines of Roman history to the death of Augustus.

The geography relating to the history prescribed.

One half examination paper.

MATHEMATICS.

Arithmetic.—Elementary rules, fractions (vulgar and decimal), contracted methods of computation, square root, interest, discount, commission, insurance, stocks and exchange.

Mensuration.—The rectangle, the parallelogram, the triangle, the circle, the parallelepiped, the prism, and the cylinder.

One examination paper.

NOTE.—The problems proposed at this examination shall be simple and direct, and in their solution neatness and accuracy will be insisted on.

Algebra.—Elementary rules; highest common measure; lowest common multiple; fractions; square root; simple equations of one, two and three unknown quantities; indices; surds; quadratics of one and two unknown quantities.

One examination paper.

Geometry.—A.—CONSTRUCTIONS.

To construct a triangle with sides of given lengths.

To construct an angle equal to a given rectilineal angle.

To bisect a given angle.

To bisect a given straight line.

To draw a line perpendicular to a given line from a given point in it.

To draw a line perpendicular to a given line from a given point not in the line.

Locus of a point equidistant from two given lines.

Locus of a point equidistant from two given points.

To draw a line parallel to another, through a given point.

To divide a given line into any number of equal parts.

To describe a parallelogram equal to a given triangle, and having an angle equal to a given angle.

To describe a parallelogram equal to a given rectilineal figure, and having an angle equal to a given angle.

On a given straight line to describe a parallelogram equal to a given triangle, and having an angle equal to a given angle.

To find the centre of a given circle.

From a given point to draw a tangent to a given circle.

On a given straight line to construct a segment of a circle containing an angle equal to a given angle.

From a given circle to cut off a segment containing an angle equal to a given angle.

In a circle to inscribe a triangle equiangular to a given triangle.

To find locus of centres of circles touching two given lines.

To inscribe a circle in a given triangle.

To describe a circle touching three given straight lines.

To describe a circle about a given triangle.

About a given circle to describe a triangle equiangular to a given triangle.

To divide a given line similarly to another given divided line.

To find the fourth proportional to three given lines.

To describe a polygon similar to a given polygon, and with the corresponding sides in a given ratio.

To find the mean proportional between two given straight lines.

To construct a polygon similar to a given polygon, and such that their areas are in a given ratio.

To describe a polygon of a given size and shape.

B.—THEOREMS.

The sum of the angles of any triangle is equal to two right angles.

The angles at the base of an isosceles triangle are equal, with converse.

If the three sides of one triangle be equal, respectively, to the three sides of another, the triangles are equal in all respects.

If two sides and the included angle of one triangle be equal to two sides and the included angle of another triangle, the triangles are equal in all respects.

If two angles and one side of a triangle be equal to two angles and the corresponding side of another, the triangles are equal in all respects.

If two sides and an angle opposite one of these sides be equal, respectively, in two triangles, the angles opposite the other pair of equal sides are either equal or supplemental.

The sum of the exterior angles of a polygon is four right angles.

The greater side of any triangle has the greater angle opposite it.

The greater angle of any triangle has the greater side opposite it.

If two sides of one triangle be equal respectively to two sides of another, that with the greater contained angle has the greater base, with converse.

If a transversal fall on two parallel lines, relations between angles formed, with converse.

Lines which join equal and parallel lines towards the same parts are themselves equal and parallel.

The opposite sides and angles of a parallelogram are equal and the diagonal bisects it.

Parallelograms on the same base, or on equal bases, and between the same parallels are equal.

Triangles on the same base, or on equal bases, and between the same parallels are equal.

Triangles equal in area, and on the same base, are between the same parallels.

If a parallelogram and a triangle be on the same base, and between the same parallels, the parallelogram is double the triangle.

Expressions for area of a parallelogram, and area of a triangle.

The complements of parallelograms about the diagonal of any parallelogram are equal.

The square on the hypotenuse of a right-angled triangle is equal to the sum of the squares on the sides.

If a straight line be divided into any two parts, the sum of the squares on the parts, together with twice the rectangle contained by the parts, is equal to the square on the whole line.

The square on a side of any triangle is equal to the sum of the squares on the two other sides + twice the rectangle contained by either of these sides and the projection of the other side on it.

If more than two equal straight lines can be drawn from the circumference of a circle to a point within it, that point is the centre.

The diameter is the greatest chord in a circle, and a chord nearer the centre is greater than one more remote. Also the greater chord is nearer the centre than the less.

The angle at the centre of a circle is double the angle at the circumference on the same arc.

The angles in the same segment of a circle are equal, with converse.

The opposite angles of a quadrilateral inscribed in a circle are together equal to two right angles, with converse.

The angle in a semicircle is a right angle; in a segment greater than a semicircle less than a right angle; in a segment less than a semicircle greater than a right angle.

A tangent is perpendicular to the radius to the point of contact; only one tangent can be drawn at a given point; the perpendicular to the tangent at the point of contact passes through the centre; the perpendicular from centre on tangent passes through the point of contact.

If two circles touch, the line joining the centres passes through the point of contact.

The angles which a chord drawn from the point of contact makes with the tangent, are equal to the angles in the alternate segments.

The rectangles under the segments of intersecting chords are equal.

A modification of Euclid's parallel postulate.

A treatment of ratio and proportion restricted to the case in which the compared magnitudes are commensurable.

One examination paper.

If $OA \cdot OB = OC^2$, OC is a tangent to the circle through A , B and C .

Triangles of the same altitude are as their bases.

A line parallel to the base of a triangle divides the sides proportionately, with converse.

If a vertical angle of a triangle be bisected, the bisector divides the base into segments that are as the sides, with converse.

The analogous proposition when the exterior angle at the vertex is bisected, with converse.

If two triangles are equiangular, the sides are proportional.

If the sides of two triangles are proportional, the triangles are equiangular.

If the sides of two triangles about equal angles are proportional, the triangles are equiangular.

If two triangles have an angle in each equal, and the sides about two other angles proportional, the remaining angles are equal or supplemental.

Similar triangles are as the squares on corresponding sides.

The perpendicular from the right angle of a right-angled triangle on the hypotenuse divides the triangle into two which are similar to the original triangle.

In equal circles angles, whether at the centres of circumferences, are proportional to the arcs on which they stand.

The areas of two similar polygons are as the squares on corresponding sides.

If three lines be proportional, the first is to the third as the figure on the first to a similar figure on the second.

Questions and easy deductions on the preceding constructions and theorems.

It is recommended that the study of formal demonstrative Geometry be preceded by a course in Practical Geometry, extending over not more than a year, and embracing the following:—

Definitions; fundamental geometric conceptions and principles; use of simple instruments, as compasses, protractor, graduated rule, etc.; measurement of lines and angles, and the construction of lines and angles of given numerical magnitude; accurate construction of figures; some leading propositions in plane geometry reached by induction as a result of accurate construction of figures; deduction also employed as principles are reached and assured. At the examination, questions may be given in Practical Geometry, the constructions being such as naturally spring from the prescribed course. Candidates must provide themselves with a graduated ruler, compasses, set-square and protractor.

In the formal deductive Geometry modifications of Euclid's treatment of the subject will be allowed, though not required, as follows:—

The employment of the "hypothetical construction."

The free employment of the method of superposition, including the rotation of figures about an axis, or about a point in a plane.

EXPERIMENTAL SCIENCE.

Physics.—An experimental course defined as follows:

Heat.—Nature and sources of heat; thermometers; maximum density of water; relation between volume and the temperature of a gas (Charles' Law); absolute temperature; change of state; latent heat, specific heat; mechanical equivalents of heat, transmission of heat; simple problems.

Electricity.—Magnetism, laws of magnetic attraction and repulsion, phenomena and theories of magnetic induction, inclination and declination of the compass; chemical effects of the electric current, electrolysis of dilute acids and metallic electroplating, electrotyping; storage cells; voltmeters and principle of their use; current induction and its general laws; transformer; induction coil; direct current dynamo; telephone, motor; simple notions of potential; Ohm's Law, shunts; electrical units; astatic and tangent galvanometers; rheostat, experimental determination of current strength, resistance, electromotive force; best arrangement of electrical generators under given conditions, the joule and the watt.

Sound.—Caused by vibrations; illustration of vibrations, pendulums, rods, strings, membranes, manometric flames, plates, columns of air; propagated by waves; its velocity; determination of velocity; pitch; standard forks, accoustal C—512, musical A—870; intervals; harmonic scale; diatonic scale; equally tempered scale, vibration of air in open and closed tubes, with wave-length; resonators; nodes and loops; vibrations of strings and wires; reflection of sound.

Light.—Rectilinear propagation; image through a pin-hole; beam; pencil; photometry; shadow and grease-spot photometers; reflection and scattering of light; laws of reflectional images in plane mirrors; drawing images; refraction; laws and index of refraction; total reflection; path through a prism; lenses; drawing image produced by a lens; simple microscope; dispersion and colour; spectrum; recomposition of white light.

One examination paper.

Chemistry: Experimental illustration of the most important properties of hydrogen, chlorine, oxygen, sulphur, nitrogen, carbon, and their different compounds, especially those of economic and industrial importance.

Mixtures, solutions, chemical compounds, elements, nomenclature, laws of chemical combination, reacting weights, chemical formulæ and equations, with easy numerical examples.

One examination paper.

ARTICLE II.—SENIOR MATRICULATION.

1. Candidates who intend to pursue an Honour Course in the University are recommended to take the Senior Matriculation (Form IV) in as many subjects as possible.

2. Candidates for Senior Matriculation shall take English, Latin, History, Mathematics, and any two of Greek, French, German, Experimental Science (Physics and Chemistry).

*3. Candidates who have taken forty per cent. on the Senior Matriculation, Senior Leaving papers of Ontario, or Entrance to Faculty of Education, or equivalents in other Provinces, in Latin, Greek, French, German, Mathematics, English, History, Chemistry, Physics, Botany, or Animal Biology, will, on payment of the *pro tanto* fee, not be required to take the University Junior class in the subject. As no student is allowed to pass more than five classes in a session, (see clause 5, article VIII), any one entering under this clause will not be exempt from more than five classes. Students who are allowed four classes may complete their course in three years.

4. Any person presenting a Senior Leaving certificate of Ontario, or equivalent certificate, will be permitted to enter upon a University course. Any person entering with the Science option must, in his first examination, include either Junior Latin, Greek, French or German.

SUBJECTS OF SENIOR MATRICULATION.

GREEK.

Translation into English of passages from the prescribed texts, with questions thereon.

Translation at sight of prose passages of average difficulty from Xenophon's historical works.

Translation into Greek of sentences (based on Xenophon's vocabulary) to test the candidate's scholarship in matters of accidence, syntax and phraseology.

The following are the prescribed texts:—

1911-12: Xenophon, *Hellenica*, (Philpott's and Jerram's Selections, Sections I and II); Homer, *Iliad* I, 1-350; III, 121-244; VI, 66-118 and 237 to the end; *Odyssey* VI and IX.

Two papers will be set: (1) prescribed texts; (2) translation at sight and Greek prose composition.

*NOTE.—Candidates intending to avail themselves of this clause should write the Deputy Minister of Education, stating where and when they wrote, and have their marks forwarded to the Registrar, who will advise the classes allowed.

LATIN.

Translation into English of passages from prescribed texts.

Translation at sight of passages of average difficulty from Cæsar.

Grammatical questions on the passages from prescribed texts, and such other questions as arise naturally from the context.

Translation into Latin of English sentences to illustrate Latin syntax and of continuous passages of English, similar in style to the authors read.

The following are the prescribed texts:—

Caesar, *de Bello Gallico*, Books I and II; Horace, *Odes*, Book I, 1, 2, 5, 6, 10, 14, 22, 24, 31, 34, 35, 38; Book II, 3, 10, 14, 15, 16, 18; Book III, 1, 2, 3, 4, 5, 13, 21, 23, 24, 25, 29, 30; Book IV, 2, 4, 5, 7, 15.

1911: Virgil, *Æneid*, Book I, vv. 1-510; Cicero, *in Catilinam*, I and II. and II.

1912: Virgil, *Æneid*, Book II, vv. 1-505; Cicero, *Pro Lege Manilia*.

Two examination papers: (1) Latin prose; (2) Authors and sight translation.

ENGLISH.

Composition: An essay on one of several themes set by the examiners. In order to pass in this subject, legible writing, correct spelling and punctuation, and grammatical construction of sentences are indispensable. The candidate should also give attention to the structure of the whole essay, the effective ordering of the thought, and the accurate employment of a good English vocabulary. About two pages of foolscap is suggested as the proper length for the essay; but quality, not quantity, will be mainly regarded.

One examination paper.

Literature: Such questions only will be set as may serve to test the candidate's familiarity with, and intelligent and appreciative comprehension of the prescribed texts. The candidate will be expected to have memorised some of the finest passages. In addition to the questions on the prescribed selections others will be set on a "sight passage" to test the candidate's ability to interpret literature for himself.

One examination paper.

1911: Tennyson, *The Poet*, *The Lady of Shalott*, *Oenone*, *The Epic and Morte d'Arthur*, *St. Agnes' Eve*, *The Voyage*, "Break, break, break," *In the Valley of the Caunteretz*; Browning, *My Last Duchess*, "How they brought the good news from Ghent to Aix," *Love among the Ruins*, *Home Thoughts from Abroad*, *Up at a Villa*, *Andrea del Sarto*, *The Guardian Angel*, *Prospect*, *An Epistle of Karshish*, *Cavalier Tunes*; Shakespeare, *Macbeth*, *As You Like It*.

1912: Coleridge, *The Ancient Mariner*; Wordsworth, *Michael*, *Influence of Natural Objects*, *Nutting*, *Expostulation and Reply*, *The Tables Turned*, *The Solitary Reaper*, *Ode to Duty*, *Elegiac Stanzas*, *To the Rev. Dr. Wordsworth*, "She was a phantom of delight," *To the Cuckoo*, *The Green Linnet*, "Bright

flower! whose home," To a Skylark ("Ethereal minstrel pilgrim of the sky!"); Reverie of Poor Susan, To my Sister, "Three years she grew," September, 1819 Upon the same Occasion, and the following twelve sonnets:—"Two voices are there," "A flock of sheep that leisurely," "Earth hath not anything," "It is not to be thought of," "Fair star of evening," "O, friend, I know not," "Milton, thou shouldst," "When I have borne in memory," "Brook! whose society," "Scorn not the sonnet," "Tax not the royal Saint," "They dramt not of a perishable home," Shakespeare, Merchant of Venice, Henry IV, Part I.

GERMAN.

The prescription of work in grammar, the translation of English into German and sight translation is the same for honours as for pass, but the examinations will be of a more advanced character.

The following are the prescribed texts:—

The texts contained in the High School German Reader.

1911: *Leander*, Träumereien, pp. 45 to 90 (selected by Van Daell). *Baumbach*, Der Schweigersohn; *Elz*, Er ist nicht eifersüchtig; *Wichert*, Post Festum.

1912: *Baumbach*, Waldnovellen, *Zschoke*, Der tote Gast.

FRENCH.

The prescription of work in grammar, the translation of English into French and sight translation, is the same for honours as for pass, but the examination will be of a more advanced character.

The following are the prescribed texts:—

Lamennais, Paroles d'un croyant, Chaps. VII and XVII; *Perrault*, le Maître Chat ou le Chat botté; *Dumas*, Un nez gelé, and la Pipe de Jean Bart; *Alphonse Daudet*, la dernière Classe, and la Chèvre de M. Seguin; *Legouvé*, La Patte de Dindon; *Pouvillon*, Hortibus; *Loti*, Chagrin d'un Vieux Forçat; *Molière*, L'Avare, Acte III, sc. 5, (Est-ce à votre cocher . . . sous la mienne); *Victor Hugo*, Waterloo, Chap. IX; *Rouget de l'Isle*, La Marseillaise; *Arnault*, La Feuille; *Chateaubriand*, L'Exilé; *Théophile Gautier*, La Chimère; *Victor Hugo*, Extase; *Lamartine*, L'Automne; *De Musset*, Tristesse; *Sully Prudhomme*, Le Vase brisé; *La Fontaine*, Le Chêne et le Roseau.

1911: *Labiche*, La Grammaire; *Chateaubriand*, Memoires d'outre-Tombe (selections published by Clarendon Press).

1912: *Labiche*, les Petits Oiseaux; *Mérimée*, Colomba.

HISTORY.

General outline of mediæval and modern European history with special reference to British history.

The geography relating to the history prescribed.
One examination paper.

MATHEMATICS.

Algebra: Elementary rules; highest common measure; lowest common multiple; fractions; square root; simple equations of one, two and three unknown quantities; indices, surds, quadratics of one and two unknown quantities; theory of divisors; ratio, proportion and variation; progressions; notation; permutations and combinations; binomial theorem; interest forms; annuities.

One examination paper.

Trigonometry: Trigonometrical ratios with their relations to each other; sines, etc., of the sum and difference of angles with deduced formulas; use of logarithms; solution of triangles; expressions for the area of triangles; radii of circumscribed, inscribed and escribed circles.

One examination paper.

Geometry: A.—Exercises on the course prescribed for the pass examination, with special reference to the following topics:—loci, maxima and minima; the system of inscribed, escribed and circumscribed circles of a triangle, with metrical relations; radical axis.

B.—The following additional propositions in Synthetic Geometry, with exercises thereon:—

To divide a given straight line internally and externally in medial section.

To describe a square that shall be equal to a given rectilineal figure.

To describe an isosceles triangle having each of the angles at the base double of the third angle.

To inscribe a regular pentagon in a given circle.

The squares on two sides of a triangle are together equal to twice the square on half the third side and twice the square on the median to that side.

If $A B C$ be a triangle, and A be joined to a point P of the base such that $B P : P C = m : n$, then $n A B^2 + m A C^2 = (m + n) A P^2 + n B P^2 + m P C^2$.

In a right-angled triangle the rectilineal figure described on the hypotenuse is equal to the sum of the similar and similarly described figures on the two other sides.

If the vertical angle of a triangle be bisected by a straight line which also cuts the base, the rectangle contained by the sides of the triangle is equal to the rectangle contained by the segments of the base, together with the square on the straight line which bisects the angle.

If from the vertical angle of a triangle a straight line be drawn perpendicular to the base, the rectangle contained by the sides of the triangle is equal to the rectangle contained by the perpendicular and the diameter of the circle described about the triangle.

The rectangle contained by the diagonals of a quadrilateral inscribed in a circle is equal to the sum of the two rectangles contained by its opposite sides.

Two similar polygons may be so placed that the lines adjoining corresponding points are concurrent.

If a straight line meet the sides B C, C A, A B, of a triangle A B C in D, E, F, respectively, then B D. C E. A F = D C. E A. F B, and conversely. (Menelaus' Theorem.)

If straight lines through the angular points A, B, C of a triangle are concurrent, and intersect the opposite sides in D, E, F, respectively, then B D. C E. A F = D C. E A. F B and conversely. (Ceva's Theorem.)

If a point A lie on the polar of a point B with respect to a circle, then B lies on polar of A.

Any straight line which passes through a fixed point is cut harmonically by the point, any circle, and the polar of the point with respect to the circle.

In a complete quadrilateral each diagonal is divided harmonically by the two other diagonals, and the angular points through which it passes.

C.—*Elementary Analytical Geometry*: Axes of co-ordinates. Position of a point in plane of reference.

Transformation of co-ordinates,—origin changed, or axes (rectangular) turned through a given angle.

$$+ 2 A = x_1 (v_2 - y_3) + \dots + \dots$$

Co-ordinates of point dividing line joining $P_1(x_1, y_1)$ and $P_2(x_2, y_2)$ in ratio $m : n$ are

$$x = \frac{m x_2 + n x_1}{m + n}, y = \frac{m y_2 + n y_1}{m + n}$$

$$(P_1 P_2)^2 = (x_1 - x_2)^2 + (y_1 - y_2)^2$$

Equations of straight lines.

$$\left. \begin{array}{l} \frac{x - x_1}{x_1 - x_2} = \frac{y - y_1}{y_1 - y_2} \\ \frac{x}{a} + \frac{y}{b} = 1 \end{array} \right\} \begin{array}{l} \text{Line defined by two points} \\ \text{through which it passes} \end{array}$$

$$\left. \begin{array}{l} \frac{x - a}{\cos \theta} = \frac{y - b}{\sin \theta} = r. \\ y = m x + b. \\ y = m (x - a). \\ x \cos a + y \sin a = p. \end{array} \right\} \begin{array}{l} \text{Line defined by one point} \\ \text{through which it passes,} \\ \text{and by its direction.} \end{array}$$

General equation of 1st degree, $A x + B y + C = 0$, represents a straight line.

Any line through (x_1, y_1) is

$$A (x - x_1) + B (y - y_1) = 0.$$

If θ be angle between $Ax + By + C = 0$ and $A'x + B'y + C = 0$, then

$$\tan \theta = \frac{A'B - AB'}{AA' + BB'}$$

Condition of \perp rity, $AA' + BB' = 0$.

Condition of \parallel ism, $\frac{A}{A'} = \frac{B}{B'}$.

Distance from (a, b) to $Ax + By + C = 0$, in direction whose direction cosines are (l, m) is

$$- \frac{Aa + Bb + C}{Al + Bm}.$$

\perp distance from (a, b) on $Ax + By + C = 0$.

$$= \pm \frac{Aa + Bb + C}{\sqrt{A^2 + B^2}}.$$

THE CIRCLE—

Equations in forms:

$$x^2 + y^2 = r^2.$$

$$(x - a)^2 + (y - b)^2 = r^2.$$

$$x^2 + y^2 - 2rx = 0.$$

General equation $x^2 + y^2 + 2Ax + 2By + C = 0$,

or $(x + A)^2 + (y + B)^2 = A^2 + B^2 - C$,

represents a circle with centre $(-A, -B)$ and radius

$$\sqrt{A^2 + B^2 - C}.$$

Tangent at (x', y') to $x^2 + y^2 = r^2$, is $xx' + yy' = r^2$.

Normal is $\frac{x}{x'} = \frac{y}{y'}$.

Tangent in form.

$$y = mx \pm \sqrt{1 + m^2}.$$

Pole being (x', y') , polar is $xx' + yy' = r^2$.

If pole move along a line, polar turns about pole of that line.

Square of tangent from

$$(x', y') \text{ to } x^2 + y^2 + 2Ax + 2By + C = 0$$

$$\text{is } x'^2 + y'^2 + 2Ax' + 2By' + C.$$

Radical axis of

$$x^2 + y^2 + 2Ax + 2By + C = 0,$$

$$x^2 + y^2 + 2A'x + 2B'y + C' = 0.$$

Easy exercises on the preceding propositions.

One examination paper.

PHYSICS.

1. *Mechanics.* Measurement of velocity; uniformly accelerated rectilinear motion; metric units of force; work energy, and power. Momentum; energy, force and momentum relations; equilibrium of forces acting at a point; triangle, parallelogram, and polygon of forces; parallel forces; principle of moments; centre of gravity; laws of friction; numerical examples.

2. *Properties of Matter.* An experimental course illustrating the following topics: Constitution of solids, liquids, gases; energy; transmutation of energy; conservation of energy; kinetic theory of matter. Boyle's and Charles' Laws; Avogadro's hypothesis. Heat, a mode of motion; absolute temperature; mechanical equivalent of heat.

Fluid pressure at a point; pressure on a horizontal plane, pressure on an inclined plane, resultant vertical pressure and resultant horizontal pressure, when liquid is under air pressure and when it is not; transmission of pressure; Bramah press; equilibrium of liquids in contact; with calculations relating to the preceding.

The barometer, Isobars, weather forecasting. The Siphon. Surface tension phenomena; surface energy illustrated with applications to filtration, dyeing, and agricultural problems. Flow of liquids—Torricelli's theorem. Bernouilli's theorem; variation to atomisers, Bunsen filter pumps, aspirators, forced draughts, ball nozzles, and curves of a baseball or golf ball.

The examination will be on the same prescription of work as the Upper School Physics.

CHEMISTRY.

Reactions, rates of reactions, reversible reactions, chemical equilibrium. The practical study of the following elements with their most characteristic compounds, having regard to Mendelejeff's classification of the elements, and some of the most important economic and industrial applications: hydrogen, sodium, potassium, magnesium, zinc, calcium, strontium, barium, boron, aluminium, carbon, silicon, tin, lead, nitrogen, phosphorus, arsenic, antimony, bismuth, oxygen, sulphur, fluorine, chlorine, bromine, iodine, manganese, iron, copper, nickel. A report must be furnished showing the amount and nature of the laboratory work done by each candidate, and the teacher's opinion of his proficiency.

One examination paper.

BIOLOGY.

1. **ELEMENTS OF ZOOLOGY:** The candidate will be examined practically on his acquaintance with the structure of the various types prescribed below, and must be prepared to sketch the specimens submitted to him.

Vertebrate Types: 1. The fish:—Any one of the common fresh water fishes of Ontario may be employed for the purpose; special attention should be given to the organs of locomotion, circulation, respiration. As several species are easily obtainable this class may be employed for studying the principles of zoological nomenclature.

2. The frog:—Comparison with the fish as to the organs above mentioned—observation of the development of the spawn of one or more Amphibia.

3. The reptile:—A study of the external form of a turtle and a snake, and comparison of both with a lizard.

4. The bird:—Special attention should be given to the plumage, the bill and feet, and to the modifications of the skeletal, muscular and respiratory systems in connection with aerial life.

5. The mammal:—Characters of the chief domesticated and wild mammals of Ontario must be studied, as well as the main facts of internal structure of one of the smaller forms (*e.g.* the rabbit). Comparison of the teeth and feet of the pig, horse, sheep, rabbit, dog, mole, bat.

Invertebrate Types: 1. Study of the crayfish as a type of the arthropods. Comparison of the external form of the crayfish with an insect (*e.g.*, grasshopper, cricket, or cockroach) also with a millipede and a spider.

2. Unsegmented and segmented worms. (Planaria or Pistome and Earthworm or Leech.)

3. Fresh water mussel and snail.

4. A fresh water unicellular animal such as an amoeba or paramecium. The natural habits of the various animals studied.

Elements of zoological classification based on forms studied.

2. ELEMENTS OF BOTANY: The examination will test whether the candidate has practically studied representatives of the flowering plants of the locality in which the preparatory school is situated.

It will further require an elementary knowledge of the following topics:

Comparison of the various organs of flowering plants:—roots, stems, leaves, hairs and parts of the flower. Reproduction, pollination, fertilization and the nature of fruits and seeds.

Structure of representatives of the chief sub-divisions of cryptogams such as a fern, a lycopod, a horsetail, a liverwort, a lichen, a moss, a mushroom and a chara.

Microscopic structure of plants.

Principles of classification.

Vegetable physiology, especially of nutrition, growth and movement.

Relation to environment.

ARTICLE III.—ARTS MATRICULATION SCHOLARSHIPS, 1911.

A Scholarship cannot be held without attendance on the University Arts classes. To be eligible for free tuition in the remaining sessions of his course the scholar must pass his annual examination to the satisfaction of the Senate. To hold a Scholarship a candidate must be fully matriculated.*

I.—The following Scholarships, of the value specified, are awarded on the July Departmental Honour Matriculation examinations. Candidates for Honour Matriculation Scholarships must take Honour standing in the subjects specified in connection with the Scholarships.

<i>Name and Source of Money.</i>	<i>Free Tuition.</i>	<i>Total Value.</i>	<i>Subjects.</i>
1. PRINCE OF WALES. \$60. Founded by H. M. King Edward VII	\$100	\$160	Mathematics, Chemistry, and Physics.
2. GOVERNOR-GENERAL. \$75. Given by His Excellency Earl Grey, LL.D.	100	175	Classics.
3. CHANCELLOR. \$100. Founded by Sir Sandford Fleming, K.C.M.G., Chancellor	100	200	Mathematics.
4. MACKERRAS MEMORIAL. \$70. Founded in memory of the late Prof. Mackerras	100	170	Classics.
5. WILLIAMSON No. 1. \$65. Founded in memory of the late Vice-Principal, Rev. Dr. James Williamson.	100	165	English and History.
6. WILLIAMSON No. 2. \$60. Founded in memory of the late Vice-Principal, Rev. Dr. James Williamson.	100	160	French and German.

<i>Name and Source of Money.</i>	<i>Free Tuition.</i>	<i>Total Value.</i>	<i>Subjects.</i>
7. LETCH MEMORIAL No. 1. \$60. Founded in memory of the late Principal Leitch	\$100	\$160	English, Chemistry, and Physics or Botany.
8. NICHOLLS FOUNDATION No. 1. \$50. Founded by the late Charlotte Nicholls, of Peterboro'	100	150	English, French and German.
9. MAYOR. \$50. Given by the Mayor of Kingston	100	150	Latin, French and German.
10. MOWAT. \$50. Founded by the late John Mowat, Esq., of Kingston	100	150	Mathematics.
11. FORBES McHARDY. \$25. Founded by the late Forbes McHardy, Esq., Toronto	100	125	Mathematics, French and German.
12. McLACHLAN. \$125. Given by R. McLachlan, Esq., Oshawa.	100	225	English, Latin and French or German.
13. REGISTRAR. \$100. Given by Geo. Y. Chown, Kingston..	100	200	Latin, English, History, Mathematics, and one of Greek, French, German, Science (Chemistry and Physics).

II.—The following Scholarships, of the values specified, are awarded on the July Departmental Junior Matriculation examinations.

<i>Name and Source of Money.</i>	<i>Free Tuition.</i>	<i>Total Value.</i>	<i>Subjects.</i>
1. NICHOLLS FOUNDATION No. 2. \$35. Founded by the late Charlotte Nicholls, Peterboro'	\$100	\$135	General proficiency.
2. McDOWALL. \$25. Founded in memory of the late Rev. Robert McDowall	100	125	Do.
3. NICHOLLS FOUNDATION No. 3. \$20. Founded by the late Charlotte Nicholls, Peterboro'	100	120	Do.

ARTICLE III.—ARTS MATRICULATION SCHOLARSHIPS, 1911.—(Continued.)

III.—The following Scholarships have been endowed under special conditions.

Name and Source of Money.	Free Tuition.	Total Value.	Subjects.
1. WATKINS. \$60. Founded by the late John Watkins, Esq., Kingston	\$100	\$160	Given to the student of the Kingston Collegiate Institute who stands highest in the Form IV examinations.
2. MCLENNAN GLENGARRY FOUNDATION. \$60. a year for four years. Founded by the late R. R. McLennan, Esq., Alexandria	100	340	General proficiency, Jr. Matriculation. Given only to candidates in one of the High Schools of County of Glengarry.
3. MARION STEWART McDONALD. \$75. Founded by John S. McDonald, Esq., Fond du Lac, Wis.		75	General proficiency, Junior Matriculation. Given only to candidates from the County of Glengarry.
4. WILSON. \$25. Given by Uriah Wilson, M.P.	100	125	General proficiency. Given only to candidates from the Counties of Lennox and Addington.
5. KINGSTON, No. 1, 2, 3, 4. Founded by the City of Kingston	100	100	General Proficiency, Junior Matriculation. Given only to candidates from the City of Kingston.
6. BRYAN. \$100. Founded by Principal George W. Bryan, of Calgary, Alta.	100	200	Awarded to candidate making the highest marks on Grade VII examination of Alberta. Open to those only who have resided for at least one year in Alberta.

Notice of intention to compete for Scholarships must be sent to the Registrar before May 22nd, 1909, on a form which will be supplied on application.

*Candidates who wish to present certificates for any part of Matriculation will forward them with the notice.

Candidates for Junior Matriculation Scholarships will not be eligible to compete for Senior Matriculation Scholarships in any subsequent year. Junior Matriculation Scholarships will only be available the next ensuing session after they are awarded.

ARTICLE IV.—UNIVERSITY PRIZES, MEDALS AND SCHOLARSHIPS.

SPECIAL SCHOLARSHIPS.

The Rhodes Scholarship in Canada.

Queen's University will, in January, 1912, select a candidate under the Rhodes' bequest. The scholar will begin residence at Oxford in October of the year for which he is elected.

The Scholarship is tenable for three years, and is of the value of £300 per annum.

ELIGIBILITY OF CANDIDATES.

1. Candidates shall be British subjects and unmarried. They must have passed their nineteenth but not have passed their twenty-fifth birthday, on October 1st of the year for which they are elected.

2. An elected scholar must have reached at least the end of his sophomore or second year's work at some recognized degree-granting University or College of Canada.

3. Candidates may elect whether they will apply for the Scholarship of the Province in which they have acquired any considerable part of their educational qualification, or for that of the Province in which they have their ordinary private domicile, home or residence. They must be prepared to present themselves for examination or election in the Province they select. No candidate may compete in more than one Province, either in the same or in successive years.

4. Only candidates who have passed an equivalent to the Oxford Responsions Examination, or those who are exempted from Responsions by the Colonial Universities' Statute, are eligible for election.

Queen's University having applied for and been admitted to the privileges of the Colonial Universities' Statute, candidates coming from Queen's University who have fulfilled the conditions are accepted as candidates for Rhodes' Scholarships without further examination.

METHOD OF SELECTION.

In accordance with the wish of Mr. Rhodes, the Trustees desire that "in the election of a student to a Scholarship, regard shall be had to (1) his literary and scholastic attainment, (2) his fondness for and success in manly out-door sports, such as cricket, football and the like, (3) his qualities of manhood, truth, courage, devotion to duty, sympathy for and protection of the weak, kindness, unselfishness and fellowship, and (4) his exhibition during school-days of moral force of character, and of instincts to lead and to take an interest in his schoolmates." Mr. Rhodes suggested that (2) and (3) should be decided in any School or College by the votes of fellow-students, and (4) by the Head of the School or College.

Where circumstances render it impracticable to carry out the letter of these suggestions, the Trustees hope that every effort will be made to give effect to their spirit, but desire it to be understood that the final decision must rest with the Committee of Selection.

Rhodes Scholars, 1905: J. M. Macdonnell, M.A.; 1907: Norman S. Macdonnell.

Exhibition of 1851, Science Research Scholarship.

This scholarship, of the annual value of £150 stg., is awarded by Her Majesty's Commissioners for the Exhibition of 1851 to students who have given evidence of capacity for original research, and (except in very special circumstances) are under 30 years of age.

The nominee must be a British subject, must have been a *bona fide* student of this University for three years, must have been a student of this University for a full year immediately before his nomination, must be a student of this University at the time of his nomination, (or he must have been a student at this University for a full year ending within twelve months prior to his nomination and since ceasing to be such student must have been engaged solely in scientific study) and must pledge himself not to hold any position of emolument whilst holding the scholarship. He is recommended to the Commissioners by the Senate of the University. The scholarship may be held for a second year, if the report of the first year's work be satisfactory to the Commissioners. The scholar will in the absence of special circumstances, be required to proceed to an institution other than that by which he is nominated, and there pursue some investigation likely to promote technical industries or scientific culture. The particular investigation the student proposes to pursue must be stated before a scholarship can be awarded.

The next recommendation will be made by the Senate in April, 1911.

Science Research Scholars recommended by Queen's University:—

Norman R. Carmichael, M.A., 1894.

Thomas L. Walker, M.A., 1896.

Frederick J. Pope, M.A., 1898.

Wm. C. Baker, M.A., 1900.

C. W. Dickson, M.A., 1901.

C. W. Knight, B.Sc., 1904.

F. H. McDougall, M.A., B.Sc., 1905.

Campbell Laidlaw, B.A., M.D., 1907.

N. L. Bowen, M.A., B.Sc., 1909.

PRIZES.

These are prizes for literary articles, essays, etc., as specified under each particular prize, and are open to students of the present or preceding session.

CONDITIONS OF COMPETITION.—1. Competitive papers must be given to the Registrar not later than 21st of March.

2. Each paper is to bear a motto, instead of the author's name, and must have attached to it a sealed envelope, bearing the same motto and containing a written declaration over the author's signature, to the effect that it is his unaided composition.

3. The envelope attached to successful papers shall be opened and the writer's name made known at the Convocation at the close of the session.

4. The best productions must be reported by the examiners to be of sufficient merit.

5. All successful productions shall be the property of the University, and be at the disposal of the Senate.

A.—LEWIS.

Value \$25. Given for the best lecture on Matthew XVII, 1-8.

B.—GOWAN FOUNDATION NO. I.

Value \$25. Given by the Hon. Sir James R. Gowan, K.C.M.G., for the best essay on City Government by Commission.

C.—GOWAN FOUNDATION NO. II.

Value \$25. Given by the Hon. Sir James R. Gowan, K.C.M.G., for "The best Collection of Canadian Plants." The collection must be delivered before the 15th December.

D.—GOWAN FOUNDATION NO. III.

Value \$25 in Books. Given by the Hon. Sir James R. Gowan, K.C.M.G., in Honours in Political Science.

E.—LATIN AND GREEK COMPOSITION.

Two prizes, each of the value of \$10 in books, are offered for competition for the best composition in Latin and Greek prose respectively. Subjects for composition, 1910-11; Latin Prose, Lytton's *Last Days of Pompeii*, Bk. V, Chap. II, from "The first interest was attracted towards the combat" to "Merciless and un pitying eyes." Greek Prose, Sargent and Dallin's *Materials and Models for Greek Prose Composition*, pages 43 ff., nos. 1, 2, 3, 4 in the Rhetorical Section.

F.—SPECIAL GERMAN PRIZE.

A prize of the value of \$10 in books is offered for the best examination in April in Senior German.

G.—JAMES C. ROGERS PRIZE IN ENGLISH.

A prize of the value of \$5 in books. Awarded by James C. Rogers, B.A., to the student obtaining the highest standing in Senior English.

H.—MARY FRASER M'LENNAN PRIZE IN HEBREW.

A prize of the value of \$12, founded in memory of Mary Fraser McLennan, of Lancaster, by her sons. Awarded to the student obtaining highest standing in Junior Hebrew.

J.—THE EDWARD THOMPSON COMPANY PRIZE.

Value \$125. The Edward Thompson Company offer a prize of 25 vols. of the "American and English Tabulated Cases" series, for the best thesis based on the above work, submitted by a candidate for the LL.B. degree, on the subject, "The Specific Performance of Contracts."

SCHOLARSHIPS IN ARTS.

1.—NEW YORK QUEEN'S ALUMNI SCHOLARSHIPS IN BIOLOGY.

Value \$50. Given by the New York Queen's University Society and awarded to the student in Arts or Medicine who obtains the highest number of marks in the honour examinations in physiology and histology.

2.—THE ANN ELIZA STAFFORD SCHOLARSHIP IN ANIMAL BIOLOGY.

Value \$40. Founded by T. T. Bower, Esq., Toronto. Awarded to a graduate in first-class honours in Animal Biology who is competent to undertake research work in physiology. The holder must be willing to devote himself exclusively to research and must carry on his investigations in the University laboratories for at least one year from the date of his appointment.

3.—THE M. C. CAMERON SCHOLARSHIP IN GAELIC.

Value \$40. Founded by the late M. C. Cameron, M.P., Goderich. Awarded to the best Gaelic scholar, reader and speaker. The examination takes place after the September Matriculation examination. Work prescribed: Any 600 lines of Ossian's Fingal, Blackie's Language and Literature of the Scottish Highlands, Gaelic Grammar. Translation at sight of Gaelic into English and English into Gaelic. This scholarship will not be awarded to any candidate who does not take at least fifty per cent. of the total number of marks in the examination.

4.—THE HIRAM CALVIN SCHOLARSHIP IN LATIN.

Value \$25. Given by Hiram Calvin, M.P., Kingston, to encourage the study of Latin in the University. Awarded on the result of the April examinations in Senior Latin, to the best student who is proceeding to the Honour Course in Latin. Not to be held by any student unless in actual attendance. Not necessarily to be awarded, unless a certain degree of merit is shown.

5.—THE MACLENNAN SCHOLARSHIP IN GREEK.

Value \$25. Given by Hon. Justice Maclennan, LL.D., Ottawa, to encourage the study of Greek in the University. Awarded on the results of the April Examinations in Senior Greek to the best student who is proceeding to the Honour Course in Greek. Not to be held by any student unless in actual attendance, and not necessarily to be awarded unless a certain degree of merit is shown.

6.—THE '01 FELLOWSHIP IN ENGLISH.

This Fellowship was established by the Class which graduated in 1901. It is awarded by the Senate to the student who is to act as Assistant Tutor in English during the following session.

MEDALS.

University medals will be awarded to the Candidates who obtain the highest number of marks in the Honour courses leading to the degree of M.A.

Candidates for medals will be required at the final examination to take all the Honour papers in the work of the courses which they select. No medal will be awarded to any candidate who fails to obtain three-fourths of the whole number of marks.

Any tutor engaged in teaching the Honour work of a class on which the medal in that class is awarded shall not compete for the medal.

THE MALCOLM MACCORMACK GOLD MEDAL IN GERMAN.

Given by Malcolm MacCormack, B.A., of Guelph, for proficiency in German speech, conversational and oratorical, tenable by male students only, in Final Honour Class.

THE A. W. ALEXANDER GOLD MEDAL IN GERMAN.

Given by Mr. A. W. Alexander, of Guelph, for proficiency in Preliminary Honour German.

SCHOLARSHIPS IN THEOLOGY.

I.—Matriculation Scholarships.

1.—DAVID STRATHERN DOW.

Founded in 1886 by David Strathern Dow, Esq., Whitby, Ont. Value \$75.

2.—DOMINION.

Founded in 1870 by the late Walter Lawson, Scotland. Value \$70.

3.—BUCHAN NO. 1.

Founded in 1875 by the late Rev. Alexander Buchan, Stirling, Ont. Value \$65.

4.—BUCHAN NO. 2.

Founded by the late Rev. A. Buchan. Value \$55.

5.—BUCHAN NO. 3.

Founded by the late Rev. A. Buchan. Value \$45.

6.—M'INTYRE.

Founded in 1876 by Mrs. Margaret W. McIntyre, Perth, Ont. Value \$20.

A candidate for these scholarships must, before writing, produce his Presbyterian certificate.

II.—Scholarships Awarded at Close of Session.

1.—SARAH M'CLELLAND WADDELL MEMORIAL.

Founded in 1899, by Hugh Waddell, Esq., South Monaghan, Ont., in memory of his mother, Sarah McClelland. Value \$120. Awarded upon the Sessional Examination at the close of the first year in divinity, Old and New Testament Exegesis, Church History and Elocution.

2.—THE CHANCELLOR'S.

Founded by Sir Sandford Fleming, K.C.M.G. Value \$70. Awarded to the student of the second year who takes the highest standing in the sessional Examinations.

3.—SPENCE.

Founded in 1879, by the late Rev. Alex. Spence, D.D., formerly minister of St. Andrew's Church, Ottawa. Value \$60. Awarded upon the Sessional Examination at the close of the first year in Divinity, Old and New Testament Exegesis, and Apologetics, or Hebrew. Tenable during second and third year in Theology.

4.—LEITCH MEMORIAL NO. 2.

Founded in 1867, in memory of the late Principal Leitch, by subscribers in Scotland and Canada. Value \$80. Awarded upon a Sessional Examination, and tenable during three successive years, should the successful candidate, after the completion of his Theological curriculum at this University, continue his studies at this or any European University. Candidates must have the degree of B.A. The next competition will take place in 1911. Subjects of examination: The Epistles to the Romans and Hebrews in Greek, Psalms I-XXV in Hebrew, Butler's Analogy, and the Divinity Lectures of the session.

5.—ANDERSON NO. 1.

Founded by the late Robert Anderson, Esq., Montreal. Value \$40. Awarded in the first year Divinity.

6.—ANDERSON NO. 2.

Founded by the late Robert Anderson, Esq. Value \$35. Awarded in second year Divinity.

7.—THE TAWSE.

Founded by Miss Tawse, King, Ont. Value \$40. Awarded in third year Divinity.

8.—TORONTO.

Founded by the Ladies' Association of St. Andrew's Church, Toronto. Value \$60. Awarded in second year Hebrew.

9.—ST. ANDREW'S CHURCH, TORONTO.

Given by the Session of St. Andrew's Church, Toronto. Value \$45. Awarded in Old Testament Exegesis.

10.—RANKINE NO. 1.

Founded in 1881, by the late Alexander Rankine, Esq., Leamington, England. Value \$45. Awarded in Apologetics.

11.—RANKINE NO. 2.

Founded by the late Alexander Rankine, Esq., Leamington, England. Value \$45. Awarded in New Testament Exegesis.

12.—GLASS MEMORIAL.

Founded in memory of the late Henry Glass, Esq., of Sarnia, by his widow. Value \$30. Awarded in Church History.

13.—MACKIE.

Given by the Rev. John Mackie, M.A., D.D., St. Andrew's Church, Kingston for the best essay on The Theology of the Epistles to the Hebrews. Essays to be handed in not later than Feb. 15th, 1909. For rules of competition see under prizes. Value \$25 in books. May be taken by a student holding another scholarship.

14.—JAMES ANDERSON BURSARY.

Founded by the late James Anderson, Acton, Ont. Value \$25. Awarded by the Senate to a student who can preach in Gaelic.

15.—WILLIAM MORRIS BURSARY.

Founded by the late Hon. Alexander Morris, in memory of his father. Value \$50. Awarded by the Senate to a Divinity student taking a post-graduate course in the University.

ARTICLE V.—TEACHER'S CERTIFICATE.

1. Teachers' Certificates which are of sufficiently recent date will be accepted *pro tanto*.

2. Ontario Junior Leaving or Entrance to Normal School certificates will be accepted as the equivalent of Junior Matriculation so far as the subjects correspond. See cl. 3, page —. Equivalent certificates from the other provinces will be accepted in the same way.

3. Senior Leaving or Entrance to Faculty of Education Certificates of Ontario will be accepted for Senior Matriculation so far as they cover the subjects of matriculation.

3. Any person presenting a Senior Leaving or Entrance to Faculty of Education certificate of Ontario, or equivalent certificate, will be permitted to enter upon a University course.

*5. Candidates who have taken forty per cent. on the Senior Matriculation or Senior Leaving papers of Ontario, Entrance to Faculty of Education, or equivalents in other Provinces, in Latin, Greek, French, German, Mathematics, English, History, Chemistry, Physics, Botany, or Animal Biology, will, on payment of the *pro tanto* fee, not be required to take the University Junior class in the subject. As no student is allowed to pass more than five classes in a session (see clause 5, article VIII), any one entering under this clause will not be exempt from more than five classes. Students who are allowed four classes may complete their course within three years.

6. Certificates from the different provinces will be accepted for the Junior Leaving and Senior Leaving certificates of Ontario as follows :—

Ontario.....	Jr. Leaving.....	} Entrance to Fac. of Ed. Sr. Leaving.
Prince Edward Island.....	Second Class.....	
Nova Scotia.....	Grade XI.....	Grade XII.

New Brunswick.....	Second Class.....	First Class.
Quebec.....	{ Academy Grade III. University School AA.	
Manitoba.....		First Class.
Saskatchewan.....	Grade VII.....	Grade VIII.
Alberta.....	Grade VII.....	Grade VIII.
British Columbia.....	Intermediate.....	Senior Academic.

*NOTE.—Candidates intending to avail themselves of this clause should write the Deputy Minister of Education, stating where and when they wrote, and have their marks forwarded to the Registrar, who will advise the classes allowed.

ARTICLE VI.—EXTRA-MURAL STUDENTS.

I.—NATURE OF COURSES.

1. A method of taking the work without attendance has been established with a view to providing for those who wish to continue their studies and yet are for any reason unable to attend the University.

2. The work is as nearly as possible identical with that taken up by intra-mural students and all examinations must be written on in the regular way.

Extra-mural students must write the essays and exercises prescribed and send them at the dates specified. For information regarding essays and exercises, see the sections concerning extra-mural students in "Subjects of Study."

4. Students should address their work and all inquiries to "The Tutor in (whatever the subject may be), Queen's University, Kingston, Ont." The date of each essay or exercise coming in and of each criticism or fresh piece of work going out will be tabulated at the college office in order that all work may be traced.

II.—MATRICULATION AND REGULATIONS.

1. Candidates for a degree must, before being registered, pass the Matriculation examination or its equivalent.

2. No one is permitted to take work at Queen's in the same year that he is taking work at any other educational institution, or writing on any examinations, other than Junior Matriculation. A year extends from October 1st. to September 30th.

3. In order to register the first time extra-mural students must be residents of Canada. Students residing outside of Canada

who have attended the University for one session, or who have been registered as extra-mural students while residing in Canada, may complete their course.

4. Students who have completed three years' work, covering three-fourths of the classes required for a degree, are entitled to a University certificate of standing.

III.—PARTIAL ATTENDANCE.

1. All extra-mural students proceeding to a degree, are required to attend at least one session. (This clause does not apply to students registered before October, 21st, 1909.)

2. Extra-mural students taking specialist courses for teachers (see page 65) are required to attend not less than two full sessions.

3. Students are strongly advised to attend for the latter part of the course if possible. If this is not feasible they should not attempt more than a pass course.

4. Oral and dictation examinations in Final Honour Moderns and practical examinations in Science must be taken at the University.

IV.—REGISTRATION.

1. Extra-mural students should register for the winter session (paying registration and tutorial fees) before October 1st in order that they may obtain tutorial assistance for the full winter session. First year students are allowed to register till December 15th. Those previously registered, wishing to take up work for the winter, must be registered and have paid tutorial fees by October 21st. Those wishing only to write on examinations in subjects in which they have previously completed the required work may register till December 15th.

2. Students who register in the winter and complete the required work in any subject before April may write either on the April or September examinations as preferred, without payment of further registration or tutorial fees.

3. The summer session for extra-mural students begins May 1st and continues without interruption till the September examinations.

4. Students should register for the summer session (paying registration and tutorial fees) before May 1st in order that they may receive tutorial assistance for the full summer session. In order to write on the September examinations it is necessary to pay fees by May 21st. A student not registered in the winter, but wishing to write on the September examinations must pay the registration fee by May 21st.

5. Attention is called to the fact that if the required amount of work in any subject is not completed during the session, it is necessary before writing on examinations to pay the registration and tutorial fees a second time to have the remainder of the work corrected.

6. The registration fee of \$10 each session and complete tutorial fees for either the winter or summer session should be sent to the Registrar together with the registration form supplied on request. On receipt of the proper fees a registration card and the first instalment of work to be done will be forwarded.

7. Students who have been granted any allowance on work already taken elsewhere must pay a pro tanto fee of \$10 with their first registration fee in order to have this allowance entered.

8. A fee of \$2 is charged for any change of subjects after registration.

V.—TUTORIAL FEES.

1. The tutorial fee for each class is \$5.

2. For each group or part of a group of Honour Mathematics the fee is \$5.

3. In no case whatever will refunds be made. In case of sickness application to have fees carried over (accompanied by a doctor's certificate) will be considered if made within one month of registration.

4. Attention is called to the fact that if assistance is required in any subject during the session and also during the summer months or if exercises in a subject have not been completed the fees must be paid twice.

5. Extra-mural students who enter not later than the close of the Christmas vacation may have extra-mural fees applied on intra-mural charges and need then pay only the balance.

VI.—EXAMINATIONS.

1. The University Examination fee of \$10 for Pass classes or \$12 for Honour (or Pass and Honour) classes must be paid to the Registrar in advance by all candidates wishing to take examinations.

2. Students applying to write at outside centres must send also \$1 for each half-day examination and \$1 for each oral examination, to remunerate presiding examiner.

3. List of centres where extra-mural examinations are held may be had on application to the Registrar. If for special reasons a candidate is unable to write at one of these, a new centre may be established on payment of a fee of \$10.00. A centre, if not used for a year, will lapse.

4. Application to the Registrar, for the papers on the particular subjects upon which students propose to write, must be made by March 15th for April examinations and August 15th for September examinations. Students wishing to have new examination centres established or old centres re-established, must make application, accompanied by the fee, by March 1st for April examinations and by August 1st for September examinations.

VII.—REMITTANCES.

Cheques or Drafts will be received at par on any place where The Merchants' Bank of Canada has an agency, otherwise add 13 cents per \$100 to cover bank charges, or remit by Post-office or Express order.

VIII.—LIBRARY.

Extra-mural students may obtain books from the Library, with the exception of those marked in the Calendar as text-books, which must be purchased by students for themselves, and which cannot be supplied from the University Library. A deposit is required of \$2.00 for one book, \$4.00 for two, and \$5.00 for three. Deposit may be withdrawn at any time. There is no fee, but the postage is paid by the borrower, being deducted from deposit before returning. For further particulars and regulations apply to the Librarian. Special arrangements are made for supplying the necessary books to extra-mural students in the Ph.D. and B.Paed. courses. Books may be kept for two weeks from date of receiving, unless by special arrangement.

All communications concerning books, and all deposits must be made directly to the Librarian.

ARTICLE VII.—REGULATIONS REGARDING CLASSES.

1. The College year extends from October 1st to September 30th.

2. Junior matriculants must in the first year of their course choose their classes from the following list:

Junior Latin, Junior Greek, Junior German, Junior French, Junior English, Junior Mathematics, Junior Physics, Junior Chemistry, Botany, Animal Biology, Mineralogy.

This restriction does not apply to students in Course A taking Jr. Latin, Jr. English and Jr. Greek.

3. No student is allowed to take a Senior class before passing the Junior in the same subject, nor to take a Junior and Senior class in the same subject in one college year.

4. No student is allowed to attend or pass more than five classes in any college year.

5. In case of failure in three classes in each of any two consecutive years the Senate may require the discontinuance of the student's course.

6. A student who has failed in any pass classes must repeat the attendance and examination in that class the following year.

7. Students should take the Pass classes in English, Latin, Greek, French, German and Mathematics in the first two years of their course.

8. Students who desire to take an Honour course in Arts are advised to spend four years thereon from Senior Matriculation or five years from Junior Matriculation.

9. Pass and Honour examinations are held annually in April and Pass examinations in September also.

10. In determining a student's standing at a sessional examination the Professors in the different departments are entitled to take into account the entire class record.

PERCENTAGES REQUIRED:

Pass Standing, Division 1, 70 per cent. and over.

Division 2, 55 to 69 per cent.

Division 3, 40 to 54 per cent.

Honour Standing, Class I, 75 per cent. and over.

Class II, 66 to 74 per cent.

Class III, 50 to 65 per cent.

ARTICLE VIII.—PASS COURSES LEADING TO DEGREE OF B.A.

1. The course after Matriculation extends over four sessions, but students who are allowed four classes (see clause 6, article V) may complete their course in three years.

2. The degree of B.A. will be conferred on candidates who take :

(a) Pass standing in the Pass classes and second or third class Honours in the Honour classes of any of the Honour courses, or

(b) Pass standing in the Pass classes and at least third class Honours in the Honour classes (if any) in one of the following Pass courses :

COURSE I.

A.—1. Junior and Senior Latin.

- | | |
|--------------------------------|------------|
| 2. Junior and Senior Greek (a) | } Any one. |
| 3. Junior and Senior French. | |
| 4. Junior and Senior German. | |

B.—1. Junior and Senior English.

2. Mental and Moral Philosophy.
3. English History or Economics.
4. Junior Mathematics.

C.—Any two of the Junior Physics, Junior Chemistry, Botany, Animal Biology, Mineralogy, Geology.

D.—Any two of the following :

1. Any two not taken under B, of Modern History, English History, Economics, Politics, Junior Hebrew.
2. Junior and Senior Greek.*
3. Junior and Senior French.*
4. Junior and Senior German.*
5. Junior and Senior Hebrew.
6. Any two of Senior Mathematics, Senior Physics, Senior Chemistry, and the classes not taken in C.
7. Any other two of those in (6).
8. Preliminary Honours in either Latin, Greek, French, German, English, History, Philosophy, Political Science, Botany, Animal Biology, Chemistry, Mineralogy or Geology.
9. Any other one of those in (8).

10. Honours in Mathematics, Group 1.
 11. Preliminary or Experimental Honour Physics.
 12. Final Honours (at least second class) in any class in (8), (10), (11).
- *Only for those who have not taken them.

(a) Students taking Greek will be required to take only one of the classes in C.

COURSE II.

- A.—1. Junior Latin.
2. Junior Greek
3. Junior French.
4. Junior German. } Any two.
- B.—1. Junior and Senior English.
2. Mental or Moral Philosophy.
3. Junior and Senior Mathematics.
4. Junior Physics.
5. Junior Chemistry.
- C.—Any two of: Botany, Animal Biology, Mineralogy, Geology, Senior Chemistry, Senior Physics.
- D.—Any four of the following:—
1. Senior Latin.
 2. Senior Greek .
 3. Senior French.
 4. Senior German.
 5. Junior Hebrew.
 6. English and Modern History.
 7. Economics and Politics.
 8. Moral Philosophy.
 9. Any other two of those in C.
 10. Any other two of those in C.
 11. Preliminary Honours in either Political Science, Botany, Animal Biology, Latin, Greek, French, German, English, History, Philosophy, Chemistry, Mineralogy, or Geology.
 12. Any other one in (11).
 13. Any other one in (11).
 14. Any other one in (11).
 15. Honours in Mathematics, Group 1.
 16. Preliminary, or Experimental Honours Physics.
 17. Final Honours (at least second class) in any class in (11), (15), or (16).

COURSE III.

While the following course for the degree of B.A. is open to all undergraduates in Arts, it is specially recommended for those who intend to qualify as general assistant in a High School or as Principal of a Continuation Class School.

Classes.

Junior and Senior Latin.

Junior and Senior English.

Junior and Senior Mathematics.

Junior French.	} Any two.
Senior French.	
Junior German.	
Senior German.	

Junior Physics.

Junior Chemistry.

Botany and Animal Biology.

Geology.

Mental and Moral Philosophy.

English and Modern History.

COURSE IV.

Course for B.A. leading to the Degrees of B.A. and M.B. in six years.

Students taking this course are required to register the first two years in Arts alone and pay the class and registration fees in Arts, to register the second two years in both Arts and Medicine, to pay both registration fees and the Medical class fees and to register the last two years in Medicine only, paying registration and class fees. Arts classes are subject to the regulations in the Arts calendar and Medicine classes to the regulations in the Medical Calendar.

Students will note that the combined B.A., M.B. course requires attendance for four sessions in order to comply with the regulations of the Ontario Medical Council. For the degree of M.D. a fifth session in Medicine is required for which three options are permitted.

A. Junior Latin.	} Any two.
Junior Greek	
Junior French.	
Junior German.	

B. Junior and Senior English.

Senior French or Senior German.

Mental or Moral Philosophy.

Junior Mathematics.

- C. Junior Physics and Junior Chemistry.
Animal Biology and Medical Botany.
Junior and Senior Materia Medica.
Junior and Senior Anatomy.
Senior Physiology and Histology.
- D. Preliminary Honour Chemistry.
Preliminary Honour Animal Biology.

COURSE. V.

Course for B.A., leading to the Degrees of B.A. and B.Sc. in six years.

Students taking this course are required to register the **first** two years in Arts alone and pay the class and registration fees in Arts, to register the second two years in both Arts and Mining, to pay both registration fees and the Mining class fees and to register the last two years in Mining only, paying registration and class fees. Arts classes are subject to the regulations in the Arts calendar and Mining classes to the regulations in the Mining Calendar.

Junior Latin	}	Any two.
Junior Greek.		
Junior French.		
Junior German.		

Senior English.

Mental Philosophy.	}	Any one.
Senior Latin.		
Senior Greek.		
Senior French.		
Senior German.		

Economics	}	Any one.
Modern History.		

Politics.	}	Any one.
Moral Philosophy.		
Preliminary Honour Latin.		
Preliminary Honour French.		
Preliminary Honour German.		
Preliminary Honour English.		

First and second year of any one of the Engineering Courses.

INSPECTOR'S GENERAL PROFICIENCY COURSE.—B.A.

In accordance with the amendments to the regulations for Public School Inspectors' certificates of the Department of Education of Ontario.

I.

Junior and Senior Latin.
Junior and Senior English.
Junior and Senior Mathematics.
English and Modern History.
Junior and Senior Chemistry.
Junior and Senior Physics.
Pass Botany and Animal Biology.

II.

Junior and Senior German,	} Any one.
Junior and Senior French,	
Junior and Senior Greek.	

III.

Preliminary Honour English.

IV.

Junior and Senior German.*	} Any one.
Junior and Senior French.*	
Junior and Senior Greek.*	
Preliminary Honour Latin.	
Preliminary Honour German.	
Preliminary Honour French.	
Preliminary Honour Greek.	
Group I, Honour Mathematics.	
Preliminary Honour Botany and Animal Biology.	
Experimental Honour Physics.	
Preliminary Honour Chemistry.	

*Only for those who have not taken them.

For students not taking Greek, a short course in Greek History will be prescribed. Roman History is provided in the course in Latin.

STANDARD.

50% required in at least half of the following:—English and Modern History (to count as one), Pass Botany and Animal Biology (to count as one), and the Senior Classes in I and II.

67% in each of those in III and IV.

SPECIALISTS' COURSES.

1. By agreement with the Education Department of Ontario, candidates taking a B.A. degree with percentages as in clause 2, in any of the following courses and attending not less than two full sessions, will receive the non-professional qualification of Specialist.

2. The percentages required for the non-professional qualification of Specialist in any of the Courses given below shall be as follows:—(1) 40 per cent. on every pass paper, (a) 50 per cent. of the aggregate of the pass papers in the Specialist subjects in each year, (3) 66 per cent. of the aggregate in Honour papers in each year.

COURSE I.—CLASSICS.

Pass Classes.

Junior and Senior Latin.	
Junior and Senior Greek.	
Junior and Senior English.	
Junior Mathematics.	
Junior and Senior French or German.	
English and Modern History.	
Junior Physics.	} Any one.
Junior Chemistry.	
Pass Animal Biology	
Pass Botany.	

Honour Classes.

Preliminary Honour Latin.	
Preliminary Honour Greek.	
Final Honour Latin	} Either.
Final Honour Greek.	

Preliminary Honour Latin and Greek include the Greek and Roman History.

COURSE II.—ENGLISH AND HISTORY (CLASSICS OPTION.)

Pass Classes.

Junior and Senior Latin.	
Junior and Senior Greek.	
Junior and Senior English.	
Junior Mathematics.	
English and Modern History.	
Junior and Senior French or German.	
Junior Physics.	} Any one.
Junior Chemistry.	
Pass Animal Biology.	
Pass Botany.	

Honour Classes.

Honour English, Anglo-Saxon, Preliminary and Final.
Honour History, Preliminary.

COURSE III.—ENGLISH AND HISTORY (MODERNS OPTION.)

Pass Classes.

Junior and Senior Latin.
Junior and Senior French.
Junior and Senior German.
Junior and Senior English.
Junior Mathematics.
English and Modern History.

Junior Physics.	} Any one.
Junior Chemistry.	
Pass Animal Biology.	
Pass Botany.	

Honour Classes.

Honour English, Anglo-Saxon, Preliminary and Final.
Honour History, Preliminary.

COURSE IV.—FRENCH AND GERMAN.

Pass Classes.

Junior and Senior Latin.
Junior and Senior French.
Junior and Senior German.
Junior and Senior English.
Junior Mathematics.
English and Modern History.

Junior Physics.	} Any one.
Junior Chemistry.	
Pass Botany.	
Pass Animal Biology.	

Honour Classes.

Honour French, Preliminary.
Honour German, Preliminary.
One of Final Honour French, or German.

COURSE V.—MODERNS, (ENGLISH, FRENCH AND GERMAN), AND HISTORY.

Pass Classes.

Junior and Senior Latin.
Junior and Senior German.

Junior and Senior French.
Junior and Senior English.
Junior Mathematics.
English and Modern History (Division II standing required).

Junior Physics.	}	Any one.
Junior Chemistry.		
Pass Botany.		
Pass Animal Biology.		

Honour Classes.

Honour English, Anglo-Saxon and Preliminary.
Honour German, Preliminary.
Honour French, Preliminary.

COURSE VI.—MATHEMATICS.

Pass Classes.

Junior Latin.		
Junior French, or German.		
Junior and Senior English.		
Junior and Senior Physics.		
Junior Mathematics.		
English and Modern History.		
Junior Chemistry.	}	Any one.
Pass Animal Biology.		
Pass Botany.		

Honour Classes.

Preliminary Honour Physics.
Honour Mathematics, Preliminary, Intermediate, and either Group III or Group IV of Final.

COURSE VII.—MATHEMATICS AND PHYSICS.

Pass Classes.

Junior Latin.		
Junior French, or German.		
Junior and Senior English.		
Junior and Senior Physics.		
Junior Mathematics.		
English and Modern History.		
Junior Chemistry.		}
Pass Animal Biology.		
Pass Botany.		

Honour Classes.

Preliminary Honour Physics.
Final Honour Physics—A.
Honour Mathematics, Preliminary and Intermediate.

COURSE VIII.—SCIENCE.

Pass Classes.

Junior Latin.
Junior French or German.
Junior and Senior English.
Junior Mathematics.
Junior and Senior Physics.
Junior and Senior Chemistry.
Pass Botany.
Pass Animal Biology.
Pass Mineralogy.
Pass Geology.

Honour Classes.

Preliminary Experimental Honour Physics.
Preliminary Honour Chemistry.
Preliminary Honour Botany.
Preliminary Honour Animal Biology.

ARTICLE IX.—HONOUR COURSES LEADING TO THE
DEGREE OF M.A.

1. *Students preparing for the position of High School Master are recommended to take one of the courses that qualify for Specialists' Certificates under Departmental Regulations.*

2. The degree of M.A. will be conferred on students who take Pass standing in the Pass classes and first class Honours in the Honour classes, in any one of the following courses.

3. The degree of B.A. will be conferred on candidates who take Pass standing in the Pass classes and second or third class Honours in the Honour classes of any one of the following courses:

COURSE A.—LITERATURE AND PHILOSOPHY.

Pass Classes.

- A. Junior and Senior Latin.
Junior and Senior Greek. (a)
Junior and Senior French.
Junior and Senior German
- } Any one.

- B. Junior English
 Senior English
 Mental or Moral Philosophy. } Three.
- C. Junior Mathematics
 Animal Biology.
 Botany. } One.
- D. Junior and Senior Greek*
 Junior and Senior French*
 Junior and Senior German.*
 Moral Philosophy.
 Economics and Politics.
 English and Modern History. } Any two.

Honour Classes.

- Preliminary and Final Honour Latin.
 Preliminary and Final Honour Greek.
 Preliminary and Final Honour French.
 Preliminary and Final Honour German.
 Anglo-Saxon, Preliminary and Final Honour English.
 Preliminary and Final Honour History.
 Preliminary and Final Honour Political Science.
 Preliminary and Final Honour Mental Philosophy.
 Preliminary and Final Honour Moral Philosophy. } Any two

(a) Students taking Greek will not be required to take the class in C.

*Only for those who have not taken them.

COURSE B.—MATHEMATICS AND PHYSICS.

Pass Classes.

- Junior English
 Senior English.
 Junior Mathematics.
 Senior Mathematics.
 Junior Physics.
 Senior Physics.
 Mental or Moral Philosophy. } Seven.
- Modern History.
 Economics.
 Mental and Moral Philosophy.
 Junior Chemistry. } Any one.

Junior Latin.	} Any two.
Senior Latin.	
Junior Greek.	
Senior Greek.	
Junior French.	
Senior French.	
Junior German.	
Senior German.	

One of the following Honour Groups:

1. Mathematics—Comprising Honour Mathematics, Preliminary Honour Physics and Practical Astronomy.
2. Physics—Comprising Preliminary and Final Honour Physics, subjects 1, 2, 3, 4, 5, 6, 7, 8 of Honour Mathematics, and Descriptive Astronomy.

COURSE C.—SCIENCE.

Pass Classes.

Junior English.	} Nine.
Senior English.	
Junior Mathematics.	
Senior Mathematics.	
Mental Philosophy.	
Junior Physics.	
Senior Physics.	
Junior Chemistry.	
Senior Chemistry.	

Junior Latin.	} Any two.
Senior Latin.	
Junior Greek.	
Senior Greek.	
Junior French.	
Senior French.	
Junior German.	
Senior German.	
Moral Philosophy.	

One of the following Honour Groups:

1. Preliminary and Final Honour Chemistry and Honour Experimental Physics.
2. Preliminary and Final Honour Chemistry, with either Preliminary and Final Honour Botany or Preliminary and Final Honour Animal Biology.
3. Preliminary and Final Honour Chemistry, Preliminary and Final Honour Geology, Preliminary and Final Honour Mineralogy.—Any two.

REQUIREMENTS FOR M.A. ON SPECIALIST COURSES.

Candidates require first-class Honour standing (75 per cent.) in the Final Honours of the subject, if any, taken in their course, and in addition, first-class Honour standing (75 per cent.) in the Honour classes as specified herein.

COURSE I.—CLASSICS.

Mental or Moral Philosophy.

Either Final Honour Latin or Final Honour Greek, (one not taken in course.)

COURSE II.—ENGLISH AND HISTORY (Classics option).

Mental or Moral Philosophy.

Final Honour History.

COURSE III.—ENGLISH AND HISTORY (Moderns option).

Mental or Moral Philosophy, or Economics, or Politics.

Final Honour History.

COURSE IV.—FRENCH AND GERMAN.

Mental or Moral Philosophy.

Either Final Honour French or German, (one not taken in course).

COURSE V.—MODERNS.

Mental or Moral Philosophy.

Any two of Final Honour English, Final Honour German, Final Honour French.

COURSE VI.—MATHEMATICS.

Final Honour Mathematics.

2 and 3 of Final Honour Physics.

COURSE VII.—MATHEMATICS AND PHYSICS.

Final Honour Physics B.

10 and 11 Honour Mathematics.

COURSE VIII.—SCIENCE.

Final Experimental Honour Physics.

Final Honour Chemistry.

Final Honour Botany.

Final Honour Animal Biology.

Final Honour Mineralogy.

Final Honour Geology.

} Any two.

NOTE 1.—Students taking either Geology, or Mineralogy will require to take Preliminary Honours also.

NOTE 2.—Students selecting both Mineralogy and Geology will be entitled to their M.A. on making first-class Honour standing (75 per cent.) in Preliminary Honour Mineralogy and Geology, and either Final Honour Mineralogy, or Final Honour Geology.

ARTICLE X.

SUBJECTS OF STUDY FOR B.A. AND M.A. DEGREES. LATIN.

PROFESSOR—William B. Anderson, M.A. (Aberd., Cantab.)

ASSOCIATE PROFESSOR—George W. Mitchell, M.A.

ASSISTANT PROFESSOR—William A. Bain, M.A. (Aberd.), B.A., (Oxon.)

FELLOW—T. S. Duncan, M.A.

TUTOR—May L. Macdonnell.

PREPARATORY CLASS.

This class will read the texts prescribed for Junior Matriculation, 1911. For grammar and composition Mitchell's *Introduction to Latin Prose* will be used.

JUNIOR CLASS.

Translation from the books specified below, with questions on grammar and subject matter; for grammatical study Bennett's *Latin Grammar* or Postgate's *New Latin Primer* is recommended.

Translation at Sight from Jerram's *Anglice Reddenda*, First Series, (Clarendon Press).

Latin Prose Composition based on the texts read and on Mitchell's *Introduction to Latin Prose*.

Roman History, from 264 to 44 B.C. (Shuckburgh's *History of Rome for Beginners* is recommended).

Roman Antiquities (Wilkins' Primer).

Cicero. *De Amicitia* (Shuckburgh or Reid).

Livy, part of Dennison's Selections (Macmillan).

Vergil, *Aeneid*, Book IX (Sidgwick or Stephenson).

SENIOR CLASS.

Translation from the books specified below, with questions on grammar and subject matter; for grammatical study Bennett's *Latin Grammar* or Postgate's *New Latin Primer* is recommended. Translation at sight from Jerram's *Anglice Reddenda* (Second Series), and Prose Composition based on the texts read and on North and Hilliard's *Latin Prose Composition*.

Roman History from 509 to 23 B.C. (Shuckburgh's smaller History is recommended).

Latin Literature, the Ciceronian and Augustan periods (Mackail).

Cicero, *Philippics V* (Brighthouse).

Livy, Book II (Conway), cc. I-XL.

Vergil, *Aeneid*, Bk. VI, ed. Sidgwick, or in Page's edition of Books I-VI.

Horace, Selections from the *Odes*, Bks. I and IV, in Wickham's *Selected Odes of Horace* (Clarendon Press).

HONOURS.

Candidates for Preliminary and Final Honours should note that much importance is attached to Composition and Translation at Sight. The text-book of Composition used in the Preliminary Section is Allen's *Second Latin Exercise Book* (Clarendon Press). The course in the History and Literature of Rome, which is compulsory for all Preliminary Honours students, extends to the death of Marcus Aurelius. Lectures are given on this and on such subjects as Syntax, the History of the Language, Textual Criticism, and Roman Philosophy. The Histories of Rome by Wells, Liddell and Benecke, How and Leigh, and Pelham, Bury's *Roman Empire*, Mackail's *Latin Literature*, Duff's *Literary History of Rome*, and Tyrrell's *Latin Poetry* will be found useful. Mommsen's *History of Rome*, Ferrero's *Greatness and Decline of Rome*, Greenidge's *Roman Public Life*, Sellar's three books on Latin Poetry, Glover's *Virgil*, and Boissiter's *Country of Horace and Virgil* may be strongly recommended for additional reading. In the Final Honours Class some period or branch of Latin Literature is studied in considerable detail.

LATIN WORKS PRESCRIBED.

(Stress is laid on the literary qualities of the books, on important textual questions, and on points of interpretation, history or archæology arising from the subject matter.)

PRELIMINARY SECTION.

- Plautus, *Captivi*, ed. Lindsay (Clar. Press), or Hallidie (Macmillan).
 Cicero, *Philippics*, V. VI (Brighouse); *Cicero in his Letters*, ed. Tyrrell (Macmillan), I-XL.
 Vergil, *Georgics*, Bk. I; *Aeneid*, III-VI, XII. Students should provide themselves with complete editions (Page's or Sidgwick's) of the *Eclogues*, *Georgics* and *Aeneid*.
 Horace, *Epistles*, Book I, ed Wilkins (Macmillan).
 Martial, Bridge and Lake's *Select Epigrams*, Vol. I, Selections from Books I-III.
 Tacitus, *Histories*, Bk. I.

Final.

- (To be taken at least one year later than the Preliminary Section.)
Fragments of Latin Poetry, ed. Merry (Clar. Press).
 Plautus, *Amphitruo*, ed. Palmer (Macmillan).
 Terence, *Andra*, ed. Freeman and Sloman (Frowde).
 Cicero, *Philippics* V, VI (Brighouse): *Cicero in his Letters*, ed. Tyrrell (Macmillan).
 Vergil, *Georgics*, Bk. II, *Aeneid*, I, II, VIII, IX, XI.
 Horace, *Epistles*, Books I and II (excluding *Ars Poetica*) ed. Wilkins (Macmillan).

Lucan, Bk. V (Teubner text).

Tacitus, *Histories*, Bk. I, ed Davies (Pitt Press).

Martial, Bridge and Lake's *Select Epigrams*, Vol. I.

GENERAL NOTICE TO LATIN STUDENTS:

Members of the Latin classes should provide themselves with a Classical Dictionary (Smith's *Smaller Classical Dictionary*, or Harper's or Seyffert's Classical Dictionary), and also with a Classical Atlas (Murray's is recommended) or at least with a map of ancient Italy (in Murray's series of *Handy Classical Maps*). In *Gow's Companion to School Classics* (Macmillan) will be found an excellent summary of many things which the student of Latin ought to know.

EXTRA-MURAL STUDENTS.

Extra-mural courses, Junior, Senior, and Honours, will be conducted during the winter session. There will also be Junior and Senior courses in the summer session, under the direct supervision of one of the professors, in which all the work in Composition necessary for the Supplemental Examinations in September will be covered.

Instructions and advice will be sent to all students as soon as they register.

N.B.—It is absolutely necessary that all the prescribed exercises be sent in regularly.

GREEK.

PROFESSOR—T. Callander, M.A. (Aberd. Oxon.)

ASSOCIATE PROFESSOR—G. W. Mitchell, M.A.

ASSISTANT PROFESSOR—W. A. Bain, M.A. (Aberd.), B.A. (Oxon.).

TUTOR—C. R. Graham, B.A.

JUNIOR CLASS.

Greek Grammar (Goodwin).

Translation from authors not specified.

Goodwin's *Greek Reader*.

Homer, *Odyssey*, XI (Merry).

North & Hillard, *Greek Prose Composition*.

SENIOR CLASS.

Thucydides II (Macmillan).

Homer *Iliad* I, III, *Odyssey* IX (Merry).

The Epistle to the Hebrews.

Greek Grammar and Composition. Text-book used is 'North and Hillard.'

Translation from authors not specified.

For general reading:

Jebb, *Primer of Greek Literature* and *Introduction to Homer*.

Maisch, *Greek Antiquities* (Temple Primers).

Bury, *School History of Greece*.

N.B.—Every member of the Senior class should make himself familiar with the outlines of Greek History at the beginning of his course. Lectures on this subject will be given during the session.

HONOURS.

Candidates for Preliminary and Final Honours in Greek should note that special stress is laid on Composition and Unseen Translation. Passages will also be set for translation from the books specified below. The Greek History required from candidates for Specialist Certificates is included in the Preliminary Honour examinations and must also be taken.

Books recommended:

Murray, *Greek Literature*.

Goodwin, *Greek Grammar*.

Holm, *History of Greece*.

Bury, *History of Greece*.

Hogarth, *Philip and Alexander*.

Jebb, *Influence of Classical Greek Poetry*.

Butcher, *Some Aspects of the Greek Genius; Harvard Lectures on Greek Subjects*.

Lang, *Homer and His Age*.

Tucker, *Life in Ancient Athens*.

Tsountas and Manatt, *Mycenean Age*.

Greenidge, *Handbook of Greek Constitutional History*.

Burrows, *Discoveries in Crete*.

Gilbert, *Greek Constitutional Antiquities*.

Instead of the editions mentioned below students may find it convenient to use the Teubner series.

Preliminary.

(The examination in this class must be passed at least one year before the final examination.)

Thucydides II (Marchant, Macmillan).

Plutarch, *Pericles*.

Homer, *Iliad I-IV, Odyssey V-XII* (Merry).

Euripides, *Bacchae* (Tyrrell, Macmillan).

Sophocles, *Oedipus Tyrannus* (Jebb).

Aristophanes, *Birds* (Merry).

Greek Grammar and Composition. Sidgwick's "Greek Prose Composition" is prescribed.

Final.

Herodotus I, II.
Thucydides I, II.
Demosthenes, *De Corona* (Goodwin).
Plato, *Republic V, VI, VII* (Adam).
Aristotle, *Ethics I, II*.
Plutarch, *Themistocles, Pericles*.
Homer, *Odyssey I-XII, Iliad I-VI*.
Aeschylus, *Agamemnon* (Sidgwick).
 Prometheus (Sikes and Willson).
Sophocles, *Oedipus Coloneus, Antigone* (Jebb).
Euripides, *Bacchae* (Tyrrell), *Medea* (Verrall).
Aristophanes, *Knights, Frogs* (Merry).
Pindar, *Pythians* (Gildersleeve).
Theocritus, *Selections*.

Those who wish to combine Honour Greek with Honours in Philosophy may substitute for the study of *Hegel* either the *Republic of Plato* or *The Nicomachean Ethics of Aristotle*. In that case certain texts in the above list for Final Honours will be cancelled, namely *Demosthenes, Plutarch* and *Theocritus*.

EXTRA-MURAL STUDENTS.

The work is the same as that prescribed for intra-mural students. To each student registered in Junior or Senior Greek a paper of general instructions will be sent, along with a list of exercises in Unseen Translation and Prose Composition. These exercises must be done regularly and with the greatest possible care. Juniors and Seniors should procure a text-book of Greek Prose Composition by *North and Hillard* (Messrs. Rivington), without delay. Extra-mural students in Honours will receive direction individually.

GERMAN LANGUAGE AND LITERATURE.

PROFESSOR—J. Macgillivray, Ph.D. (Leipzig).

ASSOCIATE PROFESSOR—E. W. Patchett, B.A. (Cantab.)

TUTORS—Miss Winifred Girdler, B.A., Roy Foley, B.A.

NOTE—James' German Grammar (Macmillan & Co.) is recommended to pass students.

PREPARATORY CLASS.

As German is not taught in many schools in the Province, a preparatory class is conducted at the University for students who may wish to begin the study of this subject. Members of this class may also join the Junior class, as soon as they can do so advantageously.

The work is based on the High School German Grammar (new edition), Macmillan's German Reader, Elementary Selections, and the Selections from Baumbach prescribed for the Junior class.

JUNIOR CLASS.

The following works are to be translated and studied:

Baumbach, Neue Märchen (Hans Taps; Die Königstochter, die nicht weinen konnte; Entenschnabel; Der Esel und der Kritiker; Eine Weihnachtsgeschichte; Der Besuch im Himmel); Möbius, Götter- und Heldensagen I; —Carmen Sylva, Ein Gebet; Benedix, Müller als Südenbock (Macmillan's Reader); Gustav Freytag, Der Staat Friederichs des Grossen (Pitt Press); Goethe, Das Märchen (Heath & Co.).

There are also exercises in oral and written composition, based largely on the above works, dictation, formal grammar (High School German Grammar) and sight translation.

SENIOR CLASS.

The following works will be studied:

Baumbach, Neue Märchen; Möbius, Götter- und Heldensagen I, II, III; Riehl, Kulturgeschichtliche Novellen (Pitt Press); Paul Heyse, Vetter Gabriel, Der Verlorene Sohn; Theodor Storm, Die Söhne des Senators (Velhagen & Klasings); Schiller, Die Jungfrau von Orleans (Macmillan & Co.); Uhland, Balladen (Balladenbuch, Macmillan & Co.); Goethe, Der Pfarrer von Sesenheim (Henry Holt & Co.), Balladen (Macmillan & Co.).

The work of the class also includes dictation, sight translation and oral and written composition, based on the above works.

HONOURS.

The examination in Preliminary Honours must be passed at least one year before the Final Examination.

An all German dictionary should be used by honour students. Hoffmann's Deutsches Wörterbuch is small and inexpensive. Larger and more complete works are the Deutsches Wörterbuch of Moritz Heyne and that of Weigand.

Preliminary.

The following is the work for this class:

Baumbach, Neue Märchen, Theodor Storm, Der Schimmelreiter; Paul Heyse, Novellen (Vetter Gabriel, Der Verlorene Sohn, Anfang und Ende, Das Mädchen von Treppi, Die Blinden); Gustaf Frenssen, Jörn Uhl I-VII.; Schiller Die Jungfrau von Orleans, Geschichte des 30jährigen Krieges (Pitt Press); Goethe, Faust I, Gedichte III (Holt & Co., Göbel); Lessing, Emilia Galotti; Behagel, Geschichte der deutschen Sprache I-III; Wychgram, Deutsche Literaturgeschichte V (Velhagen & Klasings); a short course of lectures on the political history of Germany in connection with the history of the literature; oral and written composition, based on the above works; dictation, and sight translation.

As for Preliminary, with the addition of:

Frenssen Jörn Uhl; Scheffel, Ekkehart; Schiller, Maria Stuart, Gedichte (selected). Goethe, Iphigenie, Gedichte III, V (Göbel); Lessing, Nathan der Weise; Wychgram, Deutsche Literaturgeschichte; Das Nibelungenlied in Auswahl V (Sammlung Göschen). Felix Dahn, Gelimer; Gustav Freytag, Soll and Haben; Schiller, Wallenstein, Über Naive und Sentimentalische Dichtung; Goethe Faust I (with special reference to selected portions); Tasso, Gedichte (Göbel); Lessing, Erziehung des Menschengeschlechts, Laokoon I-V; *Behagel, Geschichte der deutschen Sprache. *Wright, Old High German Primer—*Muspili, Ludwigslied, Otfrid (Selections); *Ulfilas, Markus I, II (Braunes Gotische Grammatik). For reference and study: Kleinpaul, Poetik; Krause-Nerger, Deutsche Grammatik.

Students not qualifying for Teachers' Specialists' standing may substitute for the works marked with an asterik, (1) Hermann Lotze's Mikrokosmos, or (2) Kaemmel's Werdegang des deutschen Volkes or (3) Fuchs Volkswirtschaftslehre (Sammlung Göschen) and Hertz's Eine Reise nach Freiland (Reclam).

THE GERMAN CLUB.

This club is open to all students and meets fortnightly. Instructors and others take part in it. Its work is purely practical and consists of conversation, conversational games, lectures—illustrated and otherwise, dramatic performances, etc.

EXTRA-MURAL STUDY.

The work for extra-mural students, pass and honours, is the same as for intra-murals. In addition to the study (translation or reading) of the prescribed texts, special exercises, subjects for composition, etc., will be sent to students during the session. General instructions will be sent on registration. Regular and sustained work is expected throughout the session.

SPECIAL AND GENERAL NOTE.

No candidate will be accepted in any examination, pass or honour, who has not made the required standing in each of its essential parts, *i.e.*, in Pass: Translation into English, Translation into German and Composition, Literature, Pronunciation and Dictation; in Honours as in Pass, with the addition of Philology and Orals.

ROMANCE LANGUAGES AND LITERATURE.

PROFESSOR—P. G. C. Campbell, M.A. (Oxon.).

ASSOCIATE PROFESSOR—E. W. Patchett, B.A. (Cantab.)

FELLOW—Miss Isabel MacInnes, M.A.

TUTORS—J. A. Macdonald, Miss Helena G. Raitt, B.A.

FRENCH.

Note for all classes:—No good work in French can be done without a large dictionary. Small pocket editions are worse than useless. One written entirely in French is best, and “Le Petit Larousse Illustré,” while recommended for all classes, is indispensable for Honour students. Those who find they require an English-French Dictionary may try that of James & Molé (Macmillan’s), or of Gasc (Concise Dictionary, Holt & Co.).

PREPARATORY CLASS.

Those who have not passed Junior Matriculation in French, or its equivalent, must take the Preparatory Class, and are not allowed to attend the Junior Class. Only those who pass the Matriculation examination at Christmas may take the Junior examination in April.

Prescribed Books:—

Siepmann’s Primary French Course, First Part (Macmillan’s).

Contes et Nouvelles (Hachette).

JUNIOR CLASS.

Works to be studied from the point of view both of language and of subject matter.

Dumas—Napoléon (Macmillan’s).

Lamy—Voyage du Novice Jean-Paul (Macmillan’s).

Michaud—La Première Croisade (Macmillan’s).

Anon—La Main Malheureuse (Heath & Co.).

Souvestre—Les Bannis (Macmillan’s).

Contes et Nouvelles (Hachette & Co.).

Grammar treated by the Inductive Method (Text-book “Siepmann’s Primary French Course,” Part II—Macmillan’s).

Writing French from Dictation.

Translation into French.

SENIOR CLASS.

NOTE.—Kron’s “French Daily Life” is highly recommended to students as giving a very good and sufficient idea of French manners, customs, society, and institutions. Valuable as a book of constant reference.

Works set for study:—

Mme. de la Fayette—La Princesse de Clèves (Ginn & Co.).

Balzac—Cinq Scènes de la Comédie Humaine (Heath & Co.).

Victor Hugo—La Chute (American Book Co.).

France—Le Crime de Sylvestre Bonnard (Holt & Co.).

De Vigny—La Canne de Jonc (Pitt Press).

Labiche—La Cagnotte (Heath & Co.).

Literature—A knowledge of the life and thought of Rabelais, Montaigne, Corneille, Molière, Racine, Voltaire, Rousseau, V. Hugo, Balzac, A. Dumas.

A thorough study of Grammar and Syntax, treated by the Inductive Method.

Unseen Translation.

Translation into French Prose. Text-book, "French Prose Composition for Middle Forms"—Duhamel & Minssen (Rivingtons).

Writing French from Dictation.

Essays—Nov. 30th,—Les Chansons de Geste.

Feb. 18th,—Ce que le Canada doit aux Français, (in French).

HONOURS.

Students are strongly advised to study the Examination Papers of the last seven years, as affording some guide to their own studies.

The "Wellington College French Grammar," by Eve & De Baudiss (published by D. Nutt), is highly recommended to all Honour students.

In Literature the following subjects will be specially studied during the year: Literary Criticism and the great French Critics. The Educational System of France. Racine. Realism and Balzac. The Parnassian School.

Preliminary.

(The examination in this class must be passed at least one year before the Final examination.)

TEXTS:—

*Rabelais—"Selections," ed. by Wright (Macmillan's).

Corneille—Cinna.

*Racine—Phèdre.

*Molière—L'Avare (Macmillan's).

Voltaire—Histoire de Charles Douze.

D'Alembert—Discours Préliminaire de l'Encyclopédie.

*Victor Hugo—Quatre-Vingt-Treize.

Balzac—Eugénie Grandet (Holt & Co.).

*Sainte-Beuve—Selected Essays (Ginn & Co.), viz.: Chateaubriand, Mme. Récamier, Qu'est-ce qu'un Classique? Roman de Renart, A. de Musset, Histoire de l'Académie Française.

Bourget—Un Saint (Macmillan's).

Bornier—La Fille de Roland (Heath & Co.).

*Daudet—Lettres de Mon Moulin (Macmillan's).

*To be specially lectured on.

UNSEEN TRANSLATION.

WRITING FROM DICTATION.

TRANSLATION INTO FRENCH PROSE. Text-book: Duhamel—"Advanced French Prose Composition" (Rivingtons).

THE HISTORY OF FRENCH LITERATURE.

The following subjects and authors in Lanson—*Histoire de la Littérature Française*:—Les Chansons de geste. Froissart. Villon. Commynes. Origines religieuses du Théâtre. Renaissance. Rabelais. Calvin. Les théories de la Pléiade. Montaigne. La Langue française au XVI^{me} siècle. Malherbe. La Langue française au XVII^{me} siècle. Corneille. Molière. Descartes. Boileau Racine. La Fontaine. Vue générale du XVIII^{me} siècle. Voltaire. Diderot. Rousseau. Montesquieu. Beaumarchais. L'influence de la Révolution sur la Littérature. Chateaubriand. Le mouvement romantique. V. Hugo. Dumas. Gautier. De Musset. Balzac.

NOTE—It will be well to supplement Lanson by some larger history or monographs on the particular authors.

THE THEORY OF PHONETIC CHANGE and History of the French Language—a course of 24 lectures—for intra-mural students only.

COMPOSITION IN FRENCH—Subjects for Essays and the date by which each Essay must be sent in:—

Dec. 1st, The Naturalist School in France.

Feb. 2nd, The Conception of Tragedy of Corneille and Racine.

Final Honours.

SECTION A.—THE LANGUAGE.

1. Translation into French Prose.
2. Unseen Translation from French Authors.
3. Free Composition in French.
4. Writing French from Dictation. (Intra-mural students will be examined during the term.)
5. Oral Exercises in French.
6. A general knowledge of Grammar, Syntax and Idioms.

SECTION B.—LITERATURE.

1. The History of the French Literature; and a special study of different subjects and authors each year.

For 1910-1911 see subjects given at the beginning of the prescription for Honours.

2. The Principles, in outline, of Literary Criticism applied to French Literature.

Consult: Aristotle's "Poetics" (ed. by Butcher), The Essays.

Courthope, "Life in Poetry, Law in Taste."

3. Texts prescribed for translation and study of subject matter:
- Cent. XVI.—*Rabelais—"Selections," ed. by Wright (Macmillans).
- Cent. XVII.—Corneille—Horace, Cinna.
Molière—Le Misanthrope. Les Femmes Savantes.
*L'Avare (Macmillan's).
Racine—*Phèdre. Andromaque.
- Cent. XVIII.—D'Alembert—Discours Préliminaire de l'Encyclopédie.
Voltaire—Mérope. Histoire de Charles Douze.
- Cent. XIX.—Victor Hugo—Hernani. *Quatre-Vingt-Treize. Les Orientales.
Balzac—Eugénie Grandet (Holt & Co.).
*Sainte Beuve—Selected Essays (Ginn & Co.).
*Taine—L'Ancien Régime.
Loti—Pêcheur d'Islande (W. R. Jenkins).
*Brunetière—Epoques du Théâtre Français.
Rostand—Cyrano de Bergerac.
*Daudet—Lettres de mon Moulin (Macmillan's).
Bourget—Un Saint (MacMillan's).

SECTION C.—PHILOLOGY.

1. The General Theory of Phonetic Change.
 2. The History and Development of the French Language.
Introductory Text-book—Clédat—Grammaire élémentaire de la *vieille* langue française.
 3. The Grammar of Old French.
 4. The Study of Old French Texts.
*Text: Léon Gautier—La Chanson de Roland.
- Books suggested for reference:—
Nyrop—"Grammaire Historique de la Langue Française."
Gröber—"Grundriss von Romanischer Philologie."
Meyer Lübke—"Grammaire des Langues Romanes."
Clédat—"Nouvelle Grammaire Historique."

Essays for 1910-1911 for all Final Honour students:
Nov. 30th—Humanism as contrasted with Scholasticism.
Mar. 1st—Froissart and his Age.
These essays to be written in French.

NOTE on Specialist Course V.—Those taking this course must, in French, take Section A, and *either* Section B *or* Section C.

ITALIAN.

(Italian is not obligatory for any course.)

Voluntary classes are held. No fee. Tickets to be obtained from the Registrar.

*To be specially lectured on.

FIRST YEAR—Grammar—(Grandgent).

Unseen Translation.

De Amicis—Il più bel Giorno della Vita.

Dante—Inferno I-II.

SECOND YEAR—Translation into Italian (Grandgent's Italian Composition).

History of Italian Literature (Snell's Primer of Italian Literature).

Dante—Inferno I-X.

Tasso—La Jerusalemme Liberata I-II.

Del Testa—Le Conschenze Elastiche.

Carcano—La Nunziata.

Unseen Translation.

SPANISH.

Valera—El Pájaro Verde (Ginn & Co.).

Moratin—El si de las Ninas (Ginn & Co.).

Alarcón—El Capitán Veneno (Heath & Co.).

Calderon—La Vida es Sueno (Heath & Co.).

Cervantes—Don Quixote (Heath & Co.).

Edgren's Grammar (Heath & Co.).

Ford's Composition (Heath & Co.).

Outline of the History of the Literature.

Extra-Mural Students.

Extra-mural students should obtain competent teachers for oral instruction. Pass candidates may take the oral examination at outside centres, provided an examiner approved by the Senate be obtained; but Final Honour candidates must pass their oral examinations at the University.

No extra-mural student will be admitted to examination, unless he has written all the prescribed essays and at least 50 per cent. of the prescribed Proses.

NOTES FOR DIFFERENT CLASSES:

1. *Junior.* Students on registering will receive instructions as to the prescribed Proses.

The prescribed text-book for Prose is "Primer of French Prose Composition"—Duhamel & Minssen (Rivingtons).

Subjects for Essays:—

Nov. 15th—The Policy of Napoleon III, leading to the Franco-German war.

Feb. 14th—To be written in French, Ce que le Canada doit aux Français.

2. *Senior.* The work prescribed is precisely the same as for intra-mural students. Revision papers on all the set books are sent from time to time.

3. *Preliminary Honours.* Instead of the Paper on Phonetics, extra-mural students will be set a general paper on Grammar, Syntax and Idioms; see the papers set for the last four years. All further information will be sent to the student on Registration in this subject.

ENGLISH LANGUAGE AND LITERATURE.

PROFESSOR—James Cappon, M.A.

ASSOCIATE PROFESSOR—John Marshall, M.A.

ASSISTANT PROFESSOR—John F. Macdonald, M.A.

ASSISTANT PROFESSOR—W. E. McNeill, M.A., Ph.D. (Harv.).

TUTORS—Miss Wilhelmina Gordon, M.A.; Miss Mabel Marshall.

JUNIOR CLASS.

1. Practical course in Rhetoric and Composition.
 - (a) General Theory and illustrations.
 - (b) Exercises on the above, with essays.
2. Study of Prose Authors in selected passages. Development of English Prose as illustrated by Bacon, Addison, Johnson, Macaulay, Ruskin, Carlyle, Huxley, Arnold, and others.
3. A detailed study in the class of the following:
 - Chaucer, Prologue to Canterbury Tales. (The descriptions of the Knight, Squire, Prioress, Monk, Student, Merchant, Franklin, Shipman, Parson).
 - Shakespeare, Julius Caesar.
 - Longfellow, Prelude, Nuremberg, The Belfry of Bruges, The Skeleton in Armour, Amalfi, The Village Blacksmith, The Day is Done, The Secret of the Sea.
 - Tennyson, The Palace of Art, The Lady of Shalott, "Love Thou Thy Land," The Lord of Burleigh.
 - Wordsworth, Ruth, Fidelity, The Two Voices, Lines Written near Tintern Abbey.

SENIOR CLASS.

I.

Course in Historical Development of Poetic Literature.

- (a) Anglo-Saxon Origins.
 - The Poetry of Chaucer.
 - The Ancient and Modern Ballad.
 - History of the Sonnet.
 - Origin of the English Drama.
 - Development of Blank Verse.
 - Literary Characteristics of the 18th Century.
 - The School of Dryden and Pope.
 - Development of the Rhymed Couplet.
- (b) Specimens to be read in connection with the above course:
 - From Chaucer's Prologue (The Knight, the Squire, the Prioress, the Monk, the Clerk of Oxford, the Franklin, the Parson).
 - Ballads, Sir Patrick Spens, Chevy Chase, Jamie Telfer, Coleridge's Ancient Mariner, Scott's Eve of St. John, Wordsworth's Ruth.

Sonnets, from Milton, *To the Lord General Cromwell; On His Blindness, On the Late Massacre in Piedmont*. From Wordsworth, "Milton! thou shouldst be living at this hour," "Scorn not the Sonnet; Critic, you have frowned."

Dryden, Epistle to Mr. Congreve, The Descriptions of Achitophel and Zimri in *Absolom and Achitophel*.

Pope, Epistle to Arbuthnot (Satires).

Gray, Elegy, The Progress of Poesy.

Johnson, Vanity of Human Wishes.

Goldsmith, The Deserted Village.

Consult Gosse, Eighteenth Century Literature, Chaps. I, III, IV and IX, X, XI.

II.

Shakespeare, Hamlet.

Milton, Paradise Lost, Book I.

Wordsworth, Song at the Feast of Brougham Castle, Lines written near Tintern Abbey.

Keats, Ode to the Nightingale.

Browning, A Grammarian's Funeral, Abt. Vogler, a Toccata of Galuppi's.

III.

Macaulay, Boswell's Life of Johnson.

Carlyle, Essay on Burns.

Matthew Arnold, Essay on Wordsworth.

IV.

Lectures on the History of the English Language.

From Morris and Skeat's Specimens of Early English, Part II, the extract from Robert of Gloucester.

HONOURS.

Anglo-Saxon.

1. Phonology. Grammar, Versification, Literature. The text book used is Bright's *Anglo-Saxon Reader*. The passages to be read represent the Gospels, the Blickling Homilies, the Anglo-Saxon Chronicle, the writings of Aelfric, Alfred's Preface to the *Pastoral Care*, the Alfredian translations of Bede's *Ecclesiastical History*, Orosius's *History of the World*, and Boethius's *Consolation of Philosophy*, together with several specimens of Anglo-Saxon poetry, such as the *Battle of Brunanburh*, the *Battle of Maldon*, the *Wanderer*, and *Genesis A*. See the extracts in Bright's *Reader*, numbered I, III, IV, V, VI, VIII, IX, XII, XVI, XVIII, XX, XXI, XXII, XXIII. Besides these passages, will be read ll. 1-150 of the *Béowulf*. Heyne's edition is recommended for those who are familiar with German, and Wyatt's for those who desire notes and vocabulary in English.

Preliminary.

Wordsworth, *The Prelude*, Books I, II, III, IV; *The Thorn*, Simon Lee, *The Last of the Flock*, *The Idiot Boy*, *Expostulation and Reply*, *The Tables Turned*, *The Complaint of a Forsaken Indian Woman*, *Lines Written near Tintern Abbey*, *Hart Leap Well*, *There Was a Boy*, *Lucy Gray*, *Ruth*, *Lines Written upon a Tablet*, *The Two April Mornings*, *Nutting*, *Three Years She Grew*, *The Sailor's Mother*, *The Old Cumberland Beggar*, *Michael*; the poems published as "*Memorials of a Tour in Scotland (1803)*"; the poems "*dedicated to National Independence and Liberty*," *Yew Trees*, *She was a Phantom of Delight*, *I Wandered Lonely as a Cloud*, *Resolution and Independence*, *Song at the Feast of Brougham Castle*, *Laodamia*, *Dion*, *Peter Bell*, *Fidelity*, *Ode to Duty*, *Character of the Happy Warrior*, *Ode on Immortality*, *Excursion* Book I.

Keats, *Ode on a Grecian Urn*, *Ode to a Nightingale*, *Isabella*, *Lamia*.

Byron, *Bride of Abydos*, *Childe Harold*, *Canto I-III*.

Shelley, *Alastor*, *Ode to the West Wind*, *Hymn of Pan*, *Stanzas Written Near Naples*, *Lines Among the Euganean Hills*.

Tennyson, *Ulysses*, *Morte d'Arthur*.

Clough, *Through a Glass Darkly*, *A! Yet Consider it again*, *Qua Cursum Ventus*.

Browning, (a) *The Grammarian's Funeral*, *Andrea Del Sarto*, *Fra Lippo Lippi*, *Pictor Ignotus*, *The Bishop Orders His Tomb*, *Bishop Blougram*, *How it strikes a Contemporary*, *Epistle of Karshish*, *Cleon*; (b) *Abt Vogler*, *Rabbi Ben Ezra*, *A Toccata of Galuppi's*, *The Laboratory*, *The Glove*, *Dis Aliter Visum*, *Youth and Art*, *Waring*, *The Englishman in Italy*, *Old Pictures in Florence*.

Arnold, on *Translating Homer*, *Parts I, II, III*; *Essays on Wordsworth and Byron*, *Essay on Poetry*, (*Essays in Criticism*, *Second Series*), *Culture and Anarchy*, *Chap. III*. *Sonnets: Quest Work*, *To a Friend*, *Written in Emerson's Essays*, *Thysis*, *Memorial Verses*.

Carlyle, *Sartor Resartus*, *Book I*, *Chaps. I, III, IV*; *Book II*, *Chaps. I, II, III, V, VII, VIII, IX*; *Book III*, *Chaps. III, IV, V, VII, VIII*; *Past and Present* (*Chapters: Mammonism, Dilettantism, Labour, Reward, Democracy*).

Ruskin, *On Geneva*.

Gibbon's *Rome*, *Chap. XXXV*.

J. H. Newman, *Ancient Athens*.

Candidates are expected to have a critical understanding of the development of poetry from Cowper to Tennyson.

Final.

(Every candidate for Final Honours is subject to re-examination on the Intermediate texts.)

A.

Ruskin, *Modern Painters*, Vol. I, Part I, Chaps. I to II (Preface to the Second Edition, Introductory, Greatness in Art, Part II, Chaps. III to V (Truth of Chiaroscuro, Truth of Space), Vol. III, Part IV, Chaps. IV to VII, (of the False Ideal, of the True Ideal), Chap. XII (of the Pathetic Fallacy), Chap. XVIII, The Teachers of Turner. *Stones of Venice*, Vol. II, The Nature of Gothic, Sections I-LXXXII.

Carlyle, *French Revolution*, Book I, Chaps. I and II, *Life and Letters of Cromwell*, [Introduction, Letters CXXXIX and CXL, containing accounts of the Battle of Dunbar (Part VI); Letter CLXXXVII, The Dismissal of the Rump (Part VII)].

Emerson, *The Method of Nature*, *Literary Ethics* (Essays and Orations), *The Conduct of Life* (Culture).

Arnold, *The Function of Criticism at the Present Time*, *The Literary Influence of Academies*, Heinrich Heine, *Pagan and Mediæval Religious Sentiment*, Joubert (*Essays in Criticism, First Series*), *Sonnets: Quiet Work, To a Friend*, Written in Emerson's *Essays*, *Thyrsis*, *Memorial Verses*.

In addition the candidate is expected to read the following works and to answer questions of a general nature on their style and contents.

Scott, *Redgauntlet*, *Old Mortality*.

Thackeray, *Vanity Fair*.

Hawthorne, *The House of the Seven Gables*.

Carlyle, *Life of John Sterling*, Part I.

Candidates are expected to have a critical understanding of the development of thought, as expressed in literature, during the 19th century.

B.

1. The poetry of Chaucer is the centre of studies in this course.
2. Origin and development of the octosyllabic couplet; origin and development of decasyllabic verse.
3. *The Complaynte unto Pite*, *The Book of the Duchess*, and *the Legend of Dido* (Legend of Good Women). Use Skeat's edition of *Chaucer's Minor Poems* and *The Legend of Good Women*.

4. The structure of the stanza, Dante's theory of the stanza, the 4-line stanza, the 7-line stanza, the Spenserian stanza.
Consult Ten Brink, Chaucer, Studien zur Geschichte seiner Entwicklung.
Chaucer's Sprache and Verskunst.
Sandras, Etude sur Chaucer.
Gaston Paris, La Littérature Française, Au Moyen Age, Section II, Chap. V (Le Roman de la Rose), Section III, Chaps. I and II.
Schipper, Altenglische Metrik (Englische Metrik, Erster Theil).
Grober, Romanische philologie (Romanische Verslehre von E. Stengel).

EXTRA-MURAL STUDENTS.

There are tutorial courses for extra-mural students in Junior, Senior and Honours English. The subjects for study are the same as those prescribed for intra-mural students, with the following exceptions (already noted in the list of subjects for each class):—

In studying the development of Poetry and Poetic Forms, extra-mural students of the Senior class might with advantage consult Corson's Primer of English Verse and Gummere's Hand-book of Poetics; and for the history of the language, O. F. Emerson's History of the English Language (Macmillan & Co.), Chaps. III, IV, V, VII, IX, X, XIII, XIV, XV, XVII, XVIII, XIX, XX, XXI, XXII.

Students in Preliminary Honours will read the whole of Emerson's History of the English Language.

Extracts from Prof. Cappon's lectures will be sent regularly to extra-mural students in all the classes, for the purpose of indicating the range and standard of work required and the methods of analysis and criticism used. Along with the extracts, directions for study and exercises will be sent to the student who is required to write the latter and return them for correction.

PUBLIC SPEAKING.

1. Voice cultivation. The organs of speech. Correct methods of breathing. Openness of tone passage. Faults of the voice studied and corrected. Flexibility and resonance. Exercises in articulation.

2. The study of effective speaking in relation to thinking and feeling. Various methods of manifesting the sequence of thought by proper management of the voice. The elements of conversation. Directness, inflection, changes of pitch, pause, emphasis, subordination, phrasing, movement; animation, tone-colour, modulation.

3. The problems of actual speaking. General suggestions. Gesture, carriage, change of position on the platform, volume of voice. Accurate

pronunciation. Exercises in the delivery of speeches and the practical application of the principles of public speaking.

4. Study of the various forms of public address with equal emphasis on composition and delivery.

(a) Argumentation and Debating. Preparation and delivery of debates. Brief-drawing. Analysis of various kinds of evidence. Consideration of the different fallacies. Persuasion.

(b) Exposition. The Sermon. Construction. Ways of securing effectiveness.

(c) Addresses on special occasions. After-dinner speeches. Oration, Platform addresses of various kinds.

The courses in Public Speaking are required as part of the regular work in Senior English.

HISTORY.

PROFESSOR—J. L. MORISON, M.A.

FELLOW—

PASS CLASSES.

Mediaeval English History.

This class is to be regarded as one in Mediaeval History, illustrating the development of institutions, etc., mainly from the point of view of England. The ground covered will extend from the Roman period to the end of the fourteenth century, and the text-books will be Green's Short History for the whole period (to 1400), and Davis's 'England under the Normans and Angevins' for more detailed study of the years 1066-1272. For the European aspect, students will use Bémont and Monod's "Mediaeval Europe," and will pay special attention to the Crusades, the struggle between Empire and Papacy, and the development of the Mediaeval Church.

Essays:—(Extra-mural students do four, intra-mural students three).

Nov 1st *Justify the use of the term "Dark Ages" for the years (approximately) 500 to 1100 A.D."*

Students will use here whatever book they have as a text-book for the European aspect—Bémont & Monod, or Church's 'Beginning of the Middle Ages,' or W. P. Ker's "The Dark Ages," or Oman's "The Dark Ages" (Rivington's).

Dec. 1st. *"The claims of Henry II to be considered one of the greatest of English Kings."*

Davis is admirable on the question. Those who wish to read more deeply may use Stubbs' Constitutional History or read Norgate's 'Angevin Kings,' or Stubbs' little book on "The Early Plantagenets."

Jan. 13th. "*Life in a Mediaeval Monastery.*"

The great matter here is to read at first hand. Should the student care to take a very early example, there is 'Columba,' whose life by Adamnan may be had, translated, at very small cost. Any of the numerous books on the Early Celtic Church will help here. Or the book of Jocelin of Brakelond, either in Jocelin's words, or as paraphrased by Thomas Carlyle in "Past and Present" may be used for a study of the subject in the reigns of Henry II and Richard I.

Feb. 18th. "*Social England in Chaucer's day.*"

The main point of this essay lies on study of Chaucer's prologue to the Canterbury Tales. Explanatory matter may be found in J. R. Green's History, Trevelyan's "England in the Age of Wycliffe," and Jusserand's "Literary History of the English People," Vol. I.

EUROPEAN HISTORY.

As the chair in Colonial and Canadian History was founded too late to allow details to be given in the Calendar, students must wait until a separate announcement is made. It will probably be arranged that the English History class will be conducted by both professors; that Colonial History will be an option for "Modern," in future to be called "European History"; that both professors will take part in the work for Preliminary Honours along whichever line they please.

In this class a cycle of subjects is studied, one section being taken each year:—

(1) Reformation and Renaissance; (2) Europe and the Ascendency of France from Richelieu to Napoleon; (3) Modern Europe, 1815-1900.

In 1910-11, the subject will be "Europe and the Ascendency of France from Richelieu to Napoleon." The text-book for the 17th century is Wakeman's 'Ascendency of France' (Rivington's European Series); for the 18th century, Seeley's "Expansion of England"; for the Napoleonic Era, J. H. Rose's "The Revolutionary and Napoleonic Era" (Cambridge Historical Series). In this class, both for general reading and for the essays, it is of the first importance to have an historical atlas. Dow's represents American efforts at producing a cheap college atlas; but the German Futzger's is better in point of detail, and cheaper in addition.

Extra-mural students will write the following essays:—Nov. 2nd—"*The Causes of French Supremacy in 17th Century Europe.*"

This essay demands careful study of French policy from Richelieu to Louis XIV. The text-book on the 17th century will be useful; further information may be had from The Cambridge Modern History, Vols. IV and V, or from any good French history of France in the 17th century.

Dec. 7th—*"The influence of sea-power on the Anglo-French Duel of the 18th Century."*

The text-book, Seeley's "Expansion of England," will afford much help here. Those who have access to Mahan's "Influence of Sea Power in History," will find in it an exhaustive account of the subject; and any good history of England from 1702 to 1815, e.g., J. R. Green's, will give material.

Jan. 11th, 1911—*"Napoleon as a Construction Force in Modern Europe."*

The books useful here are legion. The text-book on the period will serve; Rose's "Napoleon" is the best modern account and the C. M. Hist., has a useful volume on Napoleon.

Feb. 8th—*"The Congress at Vienna; a Study of European Conservatism in 1814-15."*

For this use the text-book by Rose, or Fyffe's Modern Europe, or the Cambridge Modern History, Vol. V.

HONOURS.

Preliminary.

Students will note that, in this class, both professors will lecture, and that the class will meet four days in the week. Details from the Colonial class will be furnished later. The Professor of History will lecture on "British Parties and Politics in the Nineteenth Century" with special lectures on the History of British India. For the former subject Morley's *Life of Gladstone* is as good a volume to use as any (it does not, of course, cover the earlier portion); for India, Lyall's "British Dominion in India" will be used.

Extra-mural students, who have to do four essays, will receive a list of these and the dates at which to send them in, on registration. During the session they will be informed from time to time as to the subjects of the Friday lectures.

Final.

Professor Grant will issue his programme later in the year. Those who study under Professor Morison will take up the work under three sections.

1. "Europe in the Revolutionary and Napoleonic Era." Dr. Rose's book on the subject in the Cambridge Historical series will serve as an outline; but students will supplement their reading from Rose's *Life of Napoleon*, or the volume on Napoleon in the Cambridge Modern History. Work will be carried on both by lectures, and in seminary, and there will be an examination at Christmas.

2. Early British History, i.e., up to 1400. Students may deal with this either as a constitutional historical subject or as social and literary, according as they

are Political Science or English Literature students. The former will read all the constitutional documents given in Adams and Stephens' *Documents*, down to 1377; Maitland's *Doomsday Book and Beyond*; M'Kechnie's *Magna Carta*; and Stubbs' *Constitutional History*, especially with reference to the development of Parliamentary institutions between 1066 and 1399. The latter (Literature students) will know *Beowulf* (in translation or old English); Adamnan's *Life of Columba*; Asser's *Life of Alfred*; *The Crusade of Richard I.* (a volume in Nutt's Series, 'English History from Contemporary Sources,' concerning which consult Professor Morison); and Chaucer's *Prologue*, in conjunction with Trevelyan's *England in the Age of Wycliffe*.

3. The last paper in the examination will consist of a single subject to be dealt with during the three hours of the examination. The student will select some one authoritative work on political history: e.g. John Knox's *History of the Reformation*; Clarendon's *History of the Great Rebellion*; Horace Walpole's *Memoirs*, either of George II or George III; the correspondence and speeches of the Earl of Chatham; the speeches and political writings of Edmund Burke (omitting all on Indian subjects); the life and speeches of George Canning; Morley's *Life of W. E. Gladstone*, with his Irish Home Rule speeches. Certain aspects of these biographies etc., will be selected and the single examination question (which is practically an essay, written under examination conditions) will be taken in connection with these. For example, assuming that Burke were chosen, the aspects selected would be 'Burke and the Whig Party,' 'Burke's Views on Economical and Parliamentary Reform,' 'The Conservatism of Edmund Burke,' etc., and from these the final question would be chosen. In every case accurate knowledge of first-hand material must be shown. Students need not confine their choice to the books named above. Any political memoir or biography of the first rank will be accepted; but students must intimate their choice to the Professor of History.

MENTAL AND MORAL PHILOSOPHY.

"THE JOHN AND ELLA G. CHARLTON PROFESSOR OF MORAL PHILOSOPHY"—
John Watson, M.A., LL.D.

PROFESSOR OF MENTAL PHILOSOPHY—S. W. Dyde, D.Sc., LL.D.

ASSISTANT PROFESSOR OF PHILOSOPHY AND LECTURER IN PSYCHOLOGY AND
LOGIC—A. D. Ferguson, B.A.

FELLOW IN MORAL PHILOSOPHY—D. C. Ramsay, M.A.

FELLOW IN MENTAL PHILOSOPHY—J. L. Nicol, M.A.

MENTAL PHILOSOPHY—Professor Dyde, and Assistant Professor
Ferguson.

This class meets Monday, Wednesday and Friday at 9 a.m. and is divided into three parts (a) Outline of Philosophy, (b) Lectures on Psychology and Logic, and (c) The Study of a special period of Philosophy.

- (a) Lectures on the method of Philosophy; a brief outline of Metaphysics, Ethics, Æsthetics, and Philosophy of Religion.

Books recommended to be read:

Mackenzie's Outline of Metaphysics and Manual of Ethics.
Palmer's The Field of Ethics.

- (b) Lectures on Psychology and Logic.—Assistant Professor Ferguson.
Textbook: Stout's Ground-work of Psychology.

- (c) The History of Greek Philosophy. Study of Plato's Theætetus and Aristotle's Ethics (Peters' or Welldon's translation).

Books recommended to be read:

Plato, Republic; Wallace, Epicureanism.

Attendance, sessional examinations, and exercises are compulsory.

MORAL PHILOSOPHY—Professor Watson.

Text-book: Watson's *Outline of Philosophy with Notes Historical and Critical*. Supplementary Lectures on the History of Modern Philosophy. Tuesday and Thursday. Attendance and exercises are compulsory.

SPECIAL VOLUNTARY CLASS, 1909-10—Professor Dyde.

A special course of lectures on Tragedy and Comedy, one hour a week, Wednesday, 2 p.m., free and open to students in any of the faculties.

HONOURS.

Preliminary.

Course 1. Critical study of Modern Philosophy. Professor Watson.

- (a) Lectures on Kant's predecessors.

Text-book: Rand's Modern Classical Philosophy, pp. 1-346.

- (b) Interpretation of the Philosophy of Kant.

Text-books: Watson's Selections from Kant and Philosophy of Kant Examined.

Course 2. A brief course of lectures on Aesthetics. Professor Dyde.

Text-book: Aristotle's Poetics.

Intermediate.

1. The work of Preliminary Honours.

2. One of the following courses:—

(a) Critical study of Ancient and Contemporary Philosophy. Professor Watson, and Assistant Professor Ferguson.

Text-books: (1) Bakewell's Source Book in Ancient Philosophy, (2) Watson's Outline of Philosophy (Supplementary Notes) and Philosophical Basis of Religion.

References: (1) Ritter & Preller's *Historia Philosophicae Græcæ*, (2) The works of T. H. Green, William James, F. C. S. Schiller, H. Sturt, B. Russell, and G. E. Moore (prescribed passages).

Students will also be referred to current discussions of these topics in the philosophical journals.

(b) Study of part of Hegel's *Wissenschaft der Logik*. Professor Watson.
Different sections are read in successive years, so that the whole of the two books prescribed for the degree of Doctor of Philosophy is ultimately studied.

(c) Plato's Republic, or Aristotle's Ethics. Assistant Professor Ferguson.

Students who choose this course, besides passing an examination on the Greek text, will be examined on the contents of the work professed. This course covers part of the requirements for the degree of Doctor of Philosophy.

(d) Comte's *Philosophie Positive*, or *Politique Positive*. Professor Campbell.

Besides an examination on the French text, candidates will be examined on the substance of the work professed. This course covers part of the requirements for the degree of Doctor of Philosophy.

(e) Lotze's *Mikrokosmos*. Professor Patchett.

Candidates will be examined on the substance as well as the text. This course covers part of the requirements for the degree of Doctor of Philosophy.

3. One of the following courses. Professor Dyde and Assistant Professor Ferguson.

(a) Reading of Plato's Sophist in the original, or Study of Plato's *Theætetus*, Sophist, Philebus, and portions of the *Timæus* and *Laws*, or Aristotle's Ethics.

Essays:

15th Nov.:—Plato's Dialectic (Plato's Sophist).

20th Dec.:—The Sophistic Conception of the State. (Plato's Protagoras and Republic II, Aristotle's Politics I).

7th Feb.:—Plato's Proof of the Existence of God (Republic II, III, Laws X-XII).

14th March:—Aristotle's Definition of Tragedy (Aristotle's Poetics, Bosanquet's History of Aesthetic).

(b) Examination of the English text of Hegel's Philosophy of Right. This work is divided into two years, but may be taken in one.

Essays:

15th Nov.:—Hegel's Theory of Crime and Punishment (Phil. of Right, pp. 90-103; Bosanquet, chap. VIII).

20th Dec.:—Time and Dialectic (Phil. of Right, section 3, 341-360, etc.).

7th Feb.:—The Nature of Evil (Phil. of Right, section 140).

14th March:—Religion and the State (Phil. of Right, section 270).

(c) Study of Kant's Critique of Judgment (portions of which to be read in the original), or Ruskin's Modern Painters (selected chapters).

15th Nov.:—Aristotle's conception of Comedy and Tragedy (Aristotle's Poetics).

20th Dec.:—Aristotle's conception of Poetry (Aristotle's Poetics).

7th Dec.:—Kant's Theory of The Sublime (Critique of Judgment), or Ruskin's View of the Imagination.

14th March—Beauty and Ugliness (Bosanquet's History of Aesthetic).

NOTE.—As a substitute for the essays required in this and the other departments, a more comprehensive essay, not less than 40 pages of foolscap in length, may be offered.

Final.

1. The work of Preliminary Honours.
2. Critical study of Ancient and Contemporary Philosophy, as in Intermediate Honours.
3. One of the following courses, as in Intermediate Honours:
 - (a) Study of part of Hegel's *Wissenschaft der Logik*.
 - (b) Plato's Republic.
 - (c) Aristotle's Ethics.
 - (d) Comte's Philosophie Positive or Politique Positive.
 - (e) Lötze's Mikrokosmos.
4. Two of the following courses, as prescribed for Intermediate Honours:
 - (a) Plato's Sophist.
 - (b) Kant's Kritik der Urtheilskraft.
 - (c) Hegel's Philosophy of Right.

5. Seminary for special study of some branch of philosophy. Weekly reports. Professor Watson.

Candidates for Final Honours are expected to read such works as Windelband's History of Philosophy, Höffding's History of Modern Philosophy, Caird's Critical Account of the Philosophy of Kant, Green's Introductions to Hume and Prolegomena to Ethics, Bradley's Logic and Appearance and Reality, Bosanquet's Logic, History of Aesthetic and Philosophical Theory of the State, and Wallace's Logic of Hegel.

Candidates in Philosophy may qualify for the degree of M.A. by taking Final Honours, or Intermediate Honours together with Honours in Latin, Greek, French, German, English, History, or Political Science.

Extra-Mural Students.

MENTAL PHILOSOPHY.

Students are expected to show familiarity with the substance of the books mentioned below. They are recommended to take up the work in the following order:

1. Schwegler, History of Philosophy, XI-XV.
Plato, Theætetus (Dyde's Translation).
Plato, Republic, Bks. I, II.
Essay for 15th Oct.:—The relation of Plato to the Sophists.
2. Plato, Republic, Bks. III-VII.
Schwegler, History of Philosophy, XIV.
**Essay for 1st Nov.:*—Plato's Theory of Education.
3. Aristotle, Nichomachean Ethics (Peters' Translation).
Schwegler, History of Philosophy, XVI.
Essay for 21st Dec.:—The relation of Aristotle's Ethics to his Psychology.
4. Schwegler, History of Philosophy, XVII-XXI.
Capes, Stoicism (New York: Pott, Young & Co.).
Wallace, Epicureanism.
Essay for 1st Feb.:—Stoicism and Epicureanism.
5. Schwegler, History of Philosophy, XXII-XXVI.†
Essay for 15th Feb.:—The Principles of the Cartesian Philosophy.
6. Schwegler, History of Philosophy, XXVII-XXXV.
Fraser, Selections from Berkeley.
Fraser, Berkeley (Blackwood's Philosophical Classics).
Essay for 14th March:—The Development of the Philosophy of Berkeley.

MORAL PHILOSOPHY—Professor Watson.

Students will be examined on Watson's "Outline of Philosophy with Supplementary Notes Historical and Critical," and "Selections from J. S. Mill." Exercises will be prescribed. These are compulsory and they will be examined and corrected by the Tutor, under supervision of the Professor.

HONOURS.

The Honours courses for extra-mural students are the same as the Honours courses for intra-mural students, except that additional essays are required, for which the Professors must be consulted.

*Netteship's article on "Plato's Theory of Education" in *Hellenica* (Rivingtons) is **very valuable, but a minute knowledge of it will not be required.**

†See also Caird's article "Cartesianism" in the *Encyclopædia Britannica* or in his *Essays, Literary and Philosophical*, Vol. II.

POLITICAL SCIENCE.

PROFESSOR—O. D. Skelton, M.A., Ph.D.

ASSISTANT PROFESSOR—W. W. Swanson, M.A., Ph.D.

ECONOMICS.

The work of this class will involve an examination of the principles of Economic Theory, and their application in such concrete problems as money, banking, the tariff, taxation, transportation, and the labor question, with supplementary lectures on Economic Geography.

Ely's *Outlines of Economics*.

POLITICS.

This class affords an introduction to the study of the theory of the state and of the structure and working of government. The course comprises two sections:

1. Comparative National Government, an examination of the form and actual working of the central governments of Great Britain, the United States and Canada. Leacock's *Elements of Political Science*.

2. History of Political Theory, an outline of the development of systematic political thought from the classical period to the present. Pollock's *History of the Science of Politics*, with supplementary reading.

Economics and Politics may be taken during the same session. In both classes essays will be prescribed.

HONOURS.

The two years' work in Honours will be spent in the study of some of the more significant theoretical and practical problems in Economics, Politics and Sociology. Special attention will be given the Canadian aspect of each question. So far as possible, term reports, assigned individually, and class discussions will be utilized to encourage independent work. Conferences will be held for the informal discussion of current economic and political topics.

In their first year in Honours, students will be examined on the Preliminary work prescribed; in their final year, on both the Preliminary and Final work prescribed for that session—the Preliminary class covering different ground in the two years. A thesis embodying independent work in some section of the Honour course will be required from every candidate for Final Honours.

Preliminary.

1. National Problems. A general survey of the main social and political questions at issue in Canada, designed to afford an introduction to more detailed study.

2. Comparative National Government.—Continental Europe. The structure and actual working of the governmental systems of the Continental countries. Lowell's Governments and Parties in Continental Europe.

3. Public Finance and Taxation. The theory and practice of national, provincial, and municipal systems of raising and expending revenue. Plehn's Introduction to Public Finance.

4. Introduction to Sociology. The nature and scope of sociology, particularly as a study of the factors of social development. Carver's Sociology and Social Progress.

Final.

1. Economic Theory since Mill. A study of the tendencies of recent economic thinking. Assigned readings.

2. Imperial Problems. An analysis of existing imperial relations and of the trend of development. Jebb's Studies in Colonial Nationalism.

3. Canadian Industrial Development. An examination of the industrial development of Canada and the changes in our trade and tariff policy since Confederation. Porritt's Sixty Years of Protection in Canada and assigned topics.

4. Canadian Constitutional Law. A study of the British North America Act and of the leading cases bearing on the powers of the Dominion and the provinces. Assigned topics.

Session of 1911-12.

Preliminary.

1. Money and Banking.
2. Economic Theory before Mill.
3. Trade Unions and Labor Problems.
4. Municipal Government.

Final.

1. Trusts and Corporation Finance.
2. Railway Transportation.
3. Socialism.
4. English Political Theory in the Nineteenth Century.

Extra-Mural Students.

In each of the Pass classes a series of exercises will be provided, containing notes on the texts and questions to be answered as concisely as possible. Scope for more extended discussion will be found in the essays prescribed.

ECONOMICS.

Candidates will be examined on the following books:

Ely's Outlines of Economics.

Cheney's Industrial and Social History of England.

Essays during session 1909-10:

Economic features of the student's neighborhood.

The causes of the growth of the modern trust, *or*

The advisability of maintaining a protective tariff in Canada.

POLITICS.

Candidates will be examined on the following books:

Pollock's History of the Science of Politics.

Leacock's Elements of Political Science.

Essays during session 1909-10:

The function of the state.

Comparison of the constitution and power of the federal executive in Canada and the United States, *or*

The doctrine of sovereignty; its application to the British Empire.

HONOURS.

The course prescribed will be the same as in the case of intra-mural students. Critical notes will be provided. In the Preliminary class essays will be assigned individually. Final Honour candidates will be required to present a thesis embodying independent work in some special field.

MATHEMATICS.

PROFESSOR—N. F. Dupuis, M.A., LL.D., F.R.S.C.

ASSOCIATE PROFESSOR—J. Matheson, M.A.

ASSISTANTS—L. A. H. Warren, M.A., L. Malcolm, M.A., B.Sc., W. H. Houser, B.A., G. H. Herriott, B.Sc., D.L.S.

TUTOR—W. A. Skirrow, M.A.

A time-table for Mathematics, in both Arts and Science, will be posted at the beginning of the session, or as soon as it can be satisfactorily arranged.

JUNIOR CLASS.

The theory and practice of *Algebra* to the Binomial theorem inclusive. Dupuis' *Algebra*—the first thirteen chapters, omitting chapter XI.

Geometry of the point, line, and circle in the plane. Parts I and II, and selections from Part III, Dupuis' *Plane Geometry*.

Trigonometry, Elementary Principles, as far as the addition theorem inclusive. Dupuis' *Plane Trigonometry*.

Besides numerous class-exercises, periodical written exercises will be required.

SENIOR CLASS.

Algebra—Dupuis' *Algebra*, from the twelfth chapter to the end.

Geometry—Part III of Dupuis' *Plane Geometry*, and the first 131 pages of Dupuis' *Solid Geometry*.

Trigonometry—Preceding De Moivre's theorem. Dupuis' *Plane Trigonometry*.

Besides numerous class-exercises, periodical written exercises will be required.

HONOURS.

Candidates who matriculate with Honours in Mathematics are not required, in their subsequent Honour Course, to take either the Junior or the Senior Class, but they are advised to read the *Geometry* of the Junior Class.

Candidates who do not matriculate with Honours must take the Junior Class as preparatory to their Honour work, but they need not take the Senior Class inasmuch as the work of this class is covered in the first group of Honour subjects.

PRELIMINARY

Group I.

1. *Synthetic Modern Geometry*.—One hour per week for the first term and two hours per week for the second term.

Work as in Dupuis' *Plane Geometry*, Parts III, IV, V, with exercises from various sources.

2. *Algebra I*.—One hour per week during the session.

Synopsis of Work: The progressions; permutations and combinations; binomial theorem; remainder theorem; solution of numerical equations with incommensurable roots; inequalities; undetermined coefficients and various applications; partial fractions, expansion of functions, etc.; continued fractions; logarithms; exponential and logarithmic series; recurring series; difference series; interpolation; summation of series; convergence of series; elementary determinants and their application to the solution of linear equations.

3. *Trigonometry I.*—One hour per week during the session.

Synopsis of Work: Contracted methods with decimals; radians and degrees; trigonometric functions; interrelation of functions; variation of functions with increase of angle; graphs; solution of right-angled triangles; orthogonal projection; addition formulæ; transforming sums into products, and vice versa; multiple and submultiple angles; applications to triangles, quadrangles and regular polygons; tables of functions, natural and logarithmic; logarithmic formulæ; inverse functions; solution of trigonometric equations; limits and approximations; series for sine and cosine. Numerous exercises.

4. *Conics I.*—two hours per week for the first term and one hour per week for the second term.

Synopsis of Work: Co-ordinate systems; rectilinear and polar and their interrelations; co-ordinates of distinctive points; point at infinity; the straight line; standard equation; perpendiculars, bisectors, etc.; relations of two or more points and lines; collinearity and concurrence; the triangle and the quadrangle; translation of origin. Equations of two dimensions; factorization and the discriminant. The general equation. The circle, with its secant and tangent lines; inverse points and inversion; pole and polar; conjugate points; conjugate figures; Salmon's theorem; radical axis and centre; systems of coaxial circles. The parabola with its tangents and normals; centre of curvature; equation with one variable, etc. General conic and variations of asymptotes; conjugate axes; theorems of Apollonius and other theorems; ellipse and hyperbola; tangents, normals and pedals; eccentric angle; problems and exercises throughout.

Books, etc.:—

1. Dupuis' *Plane Geometry*, Parts III, IV, V. Examples from Durell.
2. Dupuis' *Algebra*, with examples from various sources.
3. Hobson and Jessop's, and also Lachlan and Fletcher's *Plane Trigonometry*.
4. Lectures, with examples from Smith and Loney.

INTERMEDIATE

Group II.

5. *Synthetic Solid Geometry.*—One hour per week for the session.

Work as in Dupuis' *Synthetic Solid Geometry*.

6. *Calculus I.*—One hour per week during the session.

Synopsis of Work: Limits; functions; differential coefficient, and rules for finding it; tangents to curves; measurement of rates; implicit functions and partial derivatives; motion in curved paths; fundamental integrals; integration by parts; Euler's theorem on homogeneous functions; tangents and normals; pedal equations; asymptotes; successive differen-

tiation; Leibnitz's theorem; differential equation; Taylor's and Maclaurin's series; maxima and minima; radius of curvature; evolute; definite integrals; areas, lengths of curves, volumes and surfaces; centres of gravity, moments of inertia.

7. *Spherical Trigonometry and Astronomy*.—One hour per week for the session.

Synopsis of Work: Three-faced corner and spheric triangle; polar triangle; limits of sides and angles; spherical excess; deduction of formula, cosine formula, sine formula, cotangent formula, geometric meaning of $\sin A \sin b \sin c$. Havre-sine formula; DeLambre's equations; Napier's analogies; solution of triangle; Napier's circular parts and applications, etc.

A spherical earth; mean radius; distances along a great circle, parallel of latitude, loxodrome; surveying a great circle, a parallel of latitude; projection of the sphere, stereographic, conical, globular, Mercator's; meridional parts.

A spheroidal earth; angle of the vertical; true radius vector.

Finding the meridian, latitude, time, etc.; solar, sidereal, and mean time, equation of time.

General descriptive and practical astronomy.

8. *Determinants and Theory of Equations*.—One hour a week for the first term.

Synopsis of Work: Determinants; matrices and their transformation; reciprocal determinants; skew and skew-symmetric determinants; circulants; continuants; various applications.

General equation and its graph; Descartes' rule of signs; symmetric functions; binomial equations; transformations; reciprocal equation; the cubic and the biquadratic; real and imaginary roots; solution of numerical equations; Horner's method of approximation; theorems of Fourier, Budan and Sturm; methods of elimination.

9. *Algebra II*.—One hour a week for the second term.

Synopsis of Work: Convergency of series; infinite products; limits of infinite series; summation; continued fractions, convergents and intermediate convergents; general continued fractions; indeterminate linear and quadratic equations; theory of numbers; theorems of Fermat, Lagrange, and Wilson; probability, expectation, local probability, etc.

Books, etc.:—

5. Work as in Dupuis' Solid Synthetic Geometry.
6. Reference to Taylor, Gibson, Edwards, Van der Heyden.
7. Reference to Dupuis' and Matheson's Spheric Trigonometry, Barlow and Bryan's Mathematical Astronomy.
8. Reference to Weld's Determinants, Burnside and Panton's Theory of Equations.
9. Reference to Hall and Knight's Higher Algebra.

FINAL HONOURS.

Group III.

10. *Analytic Solid Geometry*.—One hour per week during the session, every alternate year, 1911-12.

Synopsis of Work: Notation, direction, angles, etc.; oblique co-ordinates and ppd.; the line and the plane in space; conicoids to principal axes; generating lines and ruled surfaces; surfaces of revolution; tangent planes; curves of section; confocal conicoids; general equation and its transformations; rotation of axes; invariants; circular sections and umbilici; sections of the conicoids by a plane; axes and area of the section; curvature of surfaces; indicatrix, Meunier's theorem; study of tangent planes, tangent cone, normal planes, radius of curvature, etc., through partial derivatives; study of curves in space, Quetelet's theorem.

11. *Calculus II*.—One hour per week every alternate year, 1911-12.

Synopsis of Work: Partial differentials, n th differentials; Leibnitz's theorem; expansion of functions; various theorems; change of independent variable. Theory of plane curves; tangents, normals, etc.; intersection of curves; polars; pedals; tangentials; inverse curves; polar reciprocals; asymptotes; singular points, nodes, cusps, conjugate points, multiple points, etc.; order of contact; curvature; conic with 3rd order contact; envelopes; caustics; singular forms; max. and min., with two independent variables; LaGrange's criterion.

Integrable forms; hyperbolic functions; areas; lengths of curves, volumes and surfaces; double and triple integration; formulæ of reduction; Pappus' theorems; moment of inertia, etc.; definite integrals; beta and gamma functions.

12. *Differential Equations and Finite Differences*.—One hour per week for the session, every alternate year, 1911-12.

Synopsis of Work: Nature and origin of differential equations; equations of first order and degree; exact equations; integrating factors; geometrical interpretations; singular solutions; discriminants and special loci; equations of first order and higher degree; Clairaut's form; applications to geometry and physics; intrinsic equations; trajectories; equations of 2nd order; general linear equation with constant coefficients; operator $D+a$; symbolic methods; homogeneous linear equations; special cases; solution in series; simultaneous and partial differential equations.

Fundamental operation in finite differences; differences of the powers of zero; expansion in factorials; symbols of operation; Herschel's theorem; inverted Maclaurin's theorem; interpolation; LaGrange's formula; methods of approximation; mechanical quadrature; finite integration; exact summation of series; Euler-Maclaurin sum series; approximate summation; increase of convergency.

Group IV.

13. *Trigonometry II, and Quaternions*.—One hour per week, every alternate year, 1910-11.

Synopsis of Work: Series for n th powers of $\sin a$ and $\cos a$; De-Moivre's theorem; Argand's diagram and complex quantity; properties of V function; series for $\cos na$ and $\sin na$; roots of a complex; trigonometric functions expressed in series; series for circular functions; expansion in Bernoullian numbers; factorization of binomial of n dimensions, and of quadratic trinomial of $2n$ dimensions; sine and cosine in factor series; certain series; expansion in trigonometric series; summation of trigonometric series; numerous exercises.

Vectors; addition and subtraction of vectors; multiplication and division of vectors; the quaternion; quaternion analysis; 3 or more vectors; applications to line and plane, to circle and sphere, to ellipse and ellipsoid. Investigations of vector equations of tangents, normals, evolutes, tangent plane, tangent cone, etc.; numerous exercises.

14. *Conics II*.—One hour a week for first term and two hours a week for second term in alternate years, 1910-11.

Synopsis of Work: General equation and its parameters; transformations; diametral lines; conjugate diameters; rotation of axes; invariants and their meaning; intersecting chords; contact of conics; osculation; constructions for r ; evolute; trilinears and contracted methods; harmonic properties of triangle and quadrangle; triangles in perspective; trilinears of 2nd order; discussion of leading equations; harmonicism; inscribed and circumscribed conics; self-conjugate triangle; tangential co-ordinates; circular points at infinity; foci; conics having double contact; conics fulfilling certain conditions; Pascal's and Brianchon's theorems; contact and intersection of conics; anharmonic relations; degraded conics and rectilinear hyperbola; envelopes.

15. *Elementary Theory of Functions*.—One hour per week during the session, every alternate year, 1910-11.

Synopsis of Work.—Geometrical representation of complex numbers; fundamental operations; i , ω , etc., as operators; linear transformations; invariant points; anharmonic ratios; the general rational transformation; the differential coefficient; monogenic functions; geometrical representation of multiple-valued functions; the trigonometric, logarithmic, and exponential functions and transformations; stereographic projection; Mercator's projection; conformal representation; integration; holomorphic functions; Cauchy's theorems on integration, with various applications; convergence of complex series; Cauchy's extension to Maclaurin's and Taylor's theorems; various expansions; the power series; zeros and poles; singular points; meromorphic functions; Laurent's theorem, and applications; expansion of multiple-valued functions; Riemann's surfaces.

Books, etc.:—

10. Reference to Aldis, Smith, Salmon.
11. Reference to Edwards' Diff. Calculus, Williamson's Integral Calculus.
12. Reference to Johnson, Cohen.
13. Reference to Lock's Higher Trigonometry, Kelland and Tait's quaternions.
14. Reference to Salmon's Conics.
15. Lectures. Reference to Harkness and Morley, Durège, Forsyth.

Of the Final group IV will be taken in session 1910-11.

The preliminary group, taken as a part of a pass course, will be allowed for Senior Mathematics, provided that in the examination the candidate makes at least 33 per cent. on each subject, and an average of 40 per cent. on the whole group. But for Preliminary Honours, candidates must make at least 40 per cent. on each subject, and an average of 60 per cent. on the whole group, at one examination.

For Intermediate Honours candidates must make at least 50 per cent. on each subject of the intermediate group, and an average of 60 per cent. on the whole group, at one examination.

The subjects of the two final groups must be taken at one examination; and Final Honour standing will be determined by this examination. Candidates who take Final Honours must first have taken Preliminary and Intermediate Honours.

Candidates will not be allowed to write on preliminary and intermediate examinations in the same year. But a student may attend any course of lectures for which, in the opinion of the department, he is qualified.

Extra-Mural Students.

The work for extra-mural students is the same as that for intra-murals, except in the matter of exercises.

The Mathematical Department has issued a book containing a very large number of exercises, covering the work of the Junior, Senior, and Preliminary Honour group of subjects, and to a considerable extent the work of the Intermediate Honour group. The extra-mural student must supply himself with a copy of this book, which will be forwarded by the Registrar on receipt of \$1.00, and exercises will be mainly prescribed from it by giving section and number. Exercises prescribed before the middle of any month must be returned before the end of the month, and those prescribed after the middle must be returned not later than the middle of the next month.

Work on the exercises will be estimated according to the number successfully done.

PHYSICS.

PROFESSOR EMERITUS—D. H. Marshall, M.A., F.R.S.E.

PROFESSOR—Arthur L. Clark, Ph.D.

ASSISTANT PROFESSOR—W. C. Baker, M.A.

LECTURERS—C. F. Lorenz, M.S., Ph.D., J. K. Robertson, M.A.

DEMONSTRATORS—S. H. Henry, M.A., H. W. McKiel, M.A., W. J.

Lamb, F. D. Wallace, B.A., W. A. Skirrow, M.A., W. W. Doxsee,
M.A., W. S. Earle, C. W. Day.

JUNIOR CLASS.

Lectures and demonstrations are given in the following subjects; Dynamics and Properties of Matter, one hour per week; Heat and Light, one hour per week; Electricity, Magnetism and Sound, one hour per week.

Text-books: Porter's Intermediate Mechanics.

Gregory and Hadley's Class Book of Physics.

Carmichael's Physical Experiments.

Weekly exercises are given throughout the session.

A knowledge of Algebra, Geometry, and the rudiments of Trigonometry on the part of the student is assumed.

Students are required to spend two hours a week in the Laboratory doing experimental work. Hours for this purpose will be arranged as far as possible to suit the students.

SENIOR CLASS.

The work of this class is largely a continuation of that done in the Junior class.

Text-books: Duff's text-book of Physics, Carmichael's Physical Experiments.

Weekly exercises are given throughout the session.

Students are required to spend two hours a week in the Laboratory doing experimental work.

Students who are allowed to take the Senior Class without having attended the Junior are strongly recommended to attend the lectures of the Junior Class, especially those upon Heat, Light, Electricity, Magnetism and Sound. In the Junior Class the fundamental experiments in these subjects are shown and discussed, while in the Senior Class more attention is paid to the development of physical theory.

HONOURS.

Preliminary.

Students intending to complete the Honour Course in Physics are required to take the Preliminary Honour Class at the University.

Students should take Group I of Honour Mathematics before entering this class.

The work includes:

1. *Dynamics*, one hour per week.
2. *Hydrostatics and Light*, one hour per week.
3. *Heat, Thermodynamics*, one hour per week.
4. *Electricity and Magnetism*, one hour per week.
5. *Experimental work*, four hours per week.

Selected experiments illustrating the subjects treated in the lectures.

Besides text-books which may be prescribed students are expected to read sections from other books and articles from the Journals to which they are referred from time to time. These may be found in the Library of the Department.

Final.

Students intending to attend the Final Honour Lectures in Physics are advised to acquire a reading knowledge of French and German.

This class must be taken at the University. The work includes:

1. *Experimental work in the Laboratory.*

Honour students are expected to spend a large portion of their time in the Laboratory. In the first year their work will consist of a selected course of advanced experiments in Mechanics, Heat, Light, Sound, Magnetism and Electricity; in the second year, of a small number of more elaborate measurements intended to acquaint them with some of the methods and instruments used in modern research.

2. *Dynamics of a Particle and of Systems of Particles.*
3. *Dynamics of Rigid, Elastic and Fluid Bodies.*
4. *Heat.* Kinetic Theory of Gases and Thermodynamics.
5. *Physical Optics.* Mathematical Theory of Selected Topics.
6. *Electricity and Magnetism.* Electric Waves, Conduction of Electricity through Gases, Radioactivity.

Lectures are given upon subjects 4 and 5, and upon 6 in alternate sessions. Subjects 4 and 5 will be taken up in session 1910-11.

Candidates for Honours in Mathematics and Physics must make a minimum of forty per cent. in each subject of the Preliminary Honour class and an average of sixty per cent. upon the whole group at one examination.

Candidates for Honours in Physics must make a minimum of 40 per cent. in each subject and an average of 60 per cent. in the mathematical courses 1-8 as specified on page 68.

Candidates for Honours in Physics must make a minimum of 60 per cent. in each of the subjects in Final Honour class and standing will be determined by the average of the results attained in all of the examinations of the class.

Candidates may write upon all of the examinations of the Final Honour class in a single year or they may write as follows:—

Subjects 2 and 6 in first year and 3, 4 and 5 in second year, or

“ 2, 4 and 5 in first year and 3 and 6 in second year.

EXPERIMENTAL HONOUR PHYSICS.

This class must be taken at the University and must be preceded by the Junior and Senior classes. The work required under this title in Honour Course C(1) and in Specialist's course VIII(b) consists of:—

1. Courses of lectures on selected topics in which detailed study is made of the more important principles and experiments, the theory being developed as far as may be done without advanced mathematics.

2. A comprehensive course of laboratory experiments, arranged to give the student a wide experience in experimental Physics.

3. Reading of prescribed articles from magazines and books relating to topics and experiments under discussion.

The class is divided into Preliminary and Final Honour Experimental Physics, each of which parts requires one year. The division is as follows:—

Preliminary. Dynamics, Properties of Matter, and Heat.

Final. Electricity and Magnetism, Sound and Light.

LIBRARY.

The principal Physical Journals and books relating to the Lectures and Laboratory work are kept in the Library of the Physics Department where they may be freely consulted by the students.

Extra-Mural Students.

Extra-mural students are expected to do the weekly exercises prescribed. They should also write to the Tutor stating what facilities, if any, they have for making experiments. Experiments will be prescribed to suit their circumstances as far as possible.

Under special circumstances, a limited amount of apparatus may be sent from the Laboratory upon conditions to be arranged.

JUNIOR CLASS.

A syllabus of the work stating the text-books required and the portions to be read with information about exercises, etc., will be sent to the students. The sections will be selected to correspond as far as possible with the work done by intra-mural students.

SENIOR CLASS.

A syllabus of the work stating the text-books required and the portions to be read, with other information, will be sent to the students.

PRELIMINARY HONOURS.

Taking this class extra-murally does not qualify a student to proceed to the Final Honour Class.

A syllabus of the work, stating the text-books required and the portions to be read, and the experiments to be performed, will be sent.

BOTANY.

PROFESSOR EMERITUS—Rev. James Fowler, M.A., LL.D.

PROFESSOR—W. T. MacClement, M.A., D.Sc.

TUTOR—A. B. Klugh.

PASS CLASS.—ARTS.

This course is designed to furnish an intelligent conception of the structure, life processes, and life relations of plants, for students who may pursue the subject no further. It also is a foundation for advanced work for those who desire to make Botany a special study. The work consists of lectures, discussions and laboratory experiments with plants and plant products. The principles of classification are studied from specimens of the chief orders of Canadian plants.

Lectures and Laboratory—10 a.m., Tuesday, Wednesday and Thursday.

Text-books:—Bergen Essentials of Botany (Ginn & Co.).

Coulter, Plant Relations (Appleton).

MEDICAL BOTANY.

The following work is covered in this course:—Structure and Physiology of Seed Plants. Structure and reproduction of Blue Green and Green Algae. Moulds, Rusts, Smuts, Bacteria. Use of Analytical Key and identification of typical forms, including species important in medicine, and toxicology.

Lectures and Laboratory 1-3 Tuesdays and Thursdays.

Text-books,—Bergen—Essentials of Botany. Coulter, Plant Relations.

SCIENCE BOTANY.

Open to all Science students.

Morphology of Seed Plants and of Injurious and Fleshy Fungi. Plant Ecology. Outline of Forest Conservation. Life history, structure, and identification of timber trees.

Lectures and Laboratory, 9 a.m. Monday, Wednesday and Friday.

Text-books,—Coulter, Plant Relations; Roth, A First Book of Forestry.

HONOUR BOTANY.

Preliminary Honours.

The work of this course is largely a laboratory study of the development, structure and physiological processes of typical plants. Material, either fresh or preserved, illustrating the evolution of plant structures, is studied with the aid of dissecting and compound microscopes. Permanent records in the form of ink drawings, are required. An experimental course in plant physiology is accompanied by lectures, discussions, and the study of prescribed texts. Forest conservation, and the botanical side of Forestry, are studied during the first half of the session.

Laboratory:—10-12, Monday, Wednesday and Friday.

Lectures:—11-12, Tuesday and Thursday.

Text-books:—Coulter, Plant Structures (Appleton).

Bergen and Davis, Principles of Botany (Ginn & Co.).

Atkinson, College Botany, Parts I and II (Holt & Co.).

Gray, New Manual of Botany (Am. Bk. Co.).

Final Honours.

The subjects studied in this course are Plant Histology and Anatomy, Ecology and Taxonomy of Cryptogams. A practical course in the preparation of mounts of the various vegetable structures accompanies a study of normal plant anatomy, and the modification due to environment. Field studies in Ecology and Taxonomy are obligatory during the autumn months. Laboratory:—10-12, Monday, Wednesday and Friday.

Lectures:—11-12, Tuesday and Thursday.

Text-books:—Chamberlain, Methods in Plant Histology.

Stevens, Plant Anatomy.

Atkinson, College Botany.

Gray, New Manual of Botany.

For Extra-Mural Students.

The work is, as far as possible, the same as that done by intra-mural students. Materials for practical study are either furnished by the University, or may be collected by the student. The results of the study of this material are to be regularly and promptly forwarded to the University in the form of exercises, reports, notes, or drawings. The instructor in charge will examine these reports, and make necessary recommendations. At least 80 per cent. of exercises and drawings, and all the essays, must be in the hands of the instructor by the time the student makes application for examination.

A good hand lens, simple dissecting instruments, a compound microscope with slides, etc., are required for the Pass course. The work in Preliminary Honours demands a good compound microscope with magnifying power up

to about 500 diameters, dissecting and freehand drawing instruments, and physical apparatus such as is found in High School laboratories. The Final Honour course is not offered extra-murally.

The University will furnish a compound microscope on condition that a deposit of \$40 be made by the student. On the return of the instrument in satisfactory condition this deposit will be refunded, less \$5 for its use for each session.

ANIMAL BIOLOGY.

PROFESSOR—A. P. Knight, M.A., M.D.

LECTURER—F. Etherington, M.D., L.R.C.P. and S., Edin.

DEMONSTRATOR—I. G. Bogart, M.D.

Students in Medicine are required to take the class in elementary morphology.

Students in Arts who intend subsequently to study medicine are advised to take the pass and honour classes and thus complete their physiology and histology during their undergraduate course. Besides the special course for B.A., M.B., the honour course in Science, C, number 2 (with Animal Biology) page 69 or the specialists' course in Science, page 66, is suitable for this purpose. The course in sanitary science for the degree of B.Sc. in practical science, is also suitable for medical students.

Dr. C. K. Clarke, Medical Superintendent of the Toronto Hospital for the insane, will give a short course of lectures upon heredity and insanity in relation to crime and the treatment of the criminal.

ELEMENTARY MORPHOLOGY.

Lectures or demonstrations will be given tri-weekly at 9 a.m. during the session. Part I will last from October until Christmas and will treat of general Biology and the everyday lives of animals. Part II will deal with the outlines of classification and will cover the rest of the session. It will be suitable for students taking the honour course in Geology or the course in Mining Engineering. Arts students must take parts I and II. Science students need take part II only.

The lectures treat of protoplasm, cells, cell division, reproduction, early stages of development, tissues, organs, differences between animals and plants, general view of the invertebrata and of vertebrata, organic evolution, everyday lives of animals.

The laboratory work consists of such dissections and demonstrations as will elucidate the subject of the lectures. The lectures are illustrated by diagrams, charts, and lantern transparencies.

Text-books: Comparative Zoology, by J. S. Kingsley (Henry Holt & Co.).
Animal Life, by Jordan and Kellogg (American Book Co.).

The senior leaving examination in biology of the Education Department is accepted in lieu of attendance and examination in this class.

Extra-Mural Students.

Extra-mural students are required to do the practical work outlined for Honour Matriculation in Zoology. They will be examined on Professor Ramsay Wright's *High School Zoology*.

HONOURS.

Candidates who have not matriculated with honours in biology and who intend to take an honour course in the subject must take the Pass class in elementary morphology.

The course in comparative and practical anatomy extends over two years, and the work of each year is read in class every alternate session.

Preliminary honours are awarded on the honour papers of the first session in honours.

Final honours are awarded on the honour papers of both sessions taken together.

The lectures and demonstrations in physiology and histology are attended simultaneously by students in Medicine and by Honour students in Arts.

Honour students may attend the course of lectures on the "Development and Structure of the Nervous System" which is given to medical students in the department of human anatomy by Professor Etherington. The honour work in physiology for the second year lasts during the whole session.

The study of animal forms in the museum will be under the direction of Professor McClement. He will meet the class twice a week in the museum from the Christmas vacation until the end of the session.

Graduation in honours in the department of biology lessens, by one year, the length of the course required by the Medical Council of Ontario.

The practical examinations in honours in this department are held at the University only.

The 25 Histological specimens required for microscope study for preliminary honours may be bought from Thomas Little, Laboratory Assistant, for \$2.00, and the 50 specimens required for final honours for \$4.00.

HONOURS.

Extra-Mural Students.

Extra-mural students can procure the necessary marine forms for dissection by ordering them from "The Supply Department, Marine Biological Station, Woodshole, Mass, U.S." The histological specimens required for microscope study, can be purchased from Thomas Little, Laboratory Assistant, Queen's University, at the rate of 25c. per slide, or \$6.00 for a complete set of seventy-five slides.

SESSION 1910-1911, 12 M. TO 1 P.M.

Biology of Invertebrata.

Examination of typical specimens of the different classes.

Histology and Embryology.

Physiology.

Daily Laboratory Work.

Dissection of the forms in Pratt's Invertebrate Zoology.

SESSION 1911-1912, 12 M. TO 1 P.M.

Biology of Vertebrata.

Study of types of the different divisions of Vertebrata.

Histology and Embryology.

Physiology.

Daily Laboratory Work.

Dissections of the forms in Pratt's Vertebrate Zoology.

Books for study and laboratory work:

Text-book of Physiology, 2 Vols., edited by E. A. Schafer, LL.D

Tigerstedt's Text-book of Physiology.

Halliburton's Hand-book of Physiology, last edition.

Claus and Sedgwick's, or Hartwig's Zoology, translated by J. S. Kingsley.

Wiedersheim's Elements of Comparative Anatomy.

Hills' Histology.

Balfour and Foster's Elements of Embryology.

Darwin's Origin of Species.

CHEMISTRY.

PROFESSOR—William L. Goodwin, D.Sc., Edin., B.Sc. (Lond.),
F.R.S.C.

ASSOCIATE PROFESSOR—W. O. Walker, M.A.

ASSISTANT PROFESSOR—John Waddell, B.A., D.Sc., Ph.D.

ASSISTANT PROFESSOR—Leo F. Guttman, A.C.G.I., Ph.D., F.I.C.

LECTURERS—W. D. Bonner, M.A., R. J. Manning, M.A.

FELLOW—J. A. McRae, M.A.

DEMONSTRATOR—R. C. Easson, M.A.

JUNIOR CLASS.

Lectures: Monday and Tuesday, 11 a.m.

Laboratory: Thursday, 2-5.

Text-books: Alex. Smith's General Chemistry for Colleges (The Century Co.,
New York).

Laboratory Manual of General Chemistry.

SENIOR CLASS.

1. Organic Chemistry—Lecture Thursday, 11 a.m. Laboratory Wednesday,
10-12.

2. Qualitative Analysis—Wednesday, 2-5.

Text-books: A. W. Titherley's Laboratory Course in Organic Chemistry
(Geo. Philip & Son, 32 Fleet St., London, Eng.).

Perkin and Kipping's Organic Chemistry (Lippincott & Co.).

HONOURS.

Preliminary.

(May be taken as a Pass Class.)

1. Organic Chemistry.

Lecture—Thursday, 9 a.m.

Laboratory—Wednesday, 2-5.

2. Industrial Chemistry (or *Physiological Chemistry, Urinalysis, etc. See
Medical Calendar):

Lectures—Monday and Thursday, 3 p.m.

Laboratory—Saturday, 9-12.

3. Qualitative Analysis. Five hours per week } Monday, 8-12; Tuesday, 3-5,
4. Quantitative Analysis. Three hours per week } Wednesday, 8-10.

Barium Chloride, Acidimetry and Alkalimetry, Iron Ore, Brass, Lime-
stone.

*This option is for students who intend to take a course in Medicine.

5. Introductory Physical Chemistry, with Applications to Analytical Chemistry:—

Lecture—Thursday, 8 a.m.

6. Crystallography (Elementary). See Mineralogy (First Term.

Text-books:—Perkin and Kipping's Organic Chemistry (Lippincott & Co.)

A. W. Titherley's Laboratory Course in Organic Chemistry.

Thorpe's Industrial Chemistry (The Macmillan Co., New York).

Williams' Crystallography (Henry Holt & Co.).

Walker's Physical Chemistry (Macmillan & Co., London).

Talbot's Quantitative Analysis (The Macmillan Co., New York).

Final.

7. Physical Chemistry.

Lecture—Friday, 8 a.m.

Laboratory—Friday, 9-12.

8. History of Chemistry.

Thursday, 10 a.m.

9. Quantitative Analysis.

Monday, 8-12, Tuesday 2-5.

10. Advanced Organic Chemistry.

Monday 2-5.

11. Advanced Inorganic Chemistry.

Wednesday 10 a.m.

12. Fire Assaying.

Saturday 8-1 (b).

Text-books:—Walker's Physical Chemistry (Macmillan & Co.).

Findlay's Practical Physical Chemistry (Longmans, Green & Co.).

Furman's Manual of Assaying (J. Wiley & Sons).

Syllabus of Quantitative Analysis.

Coal, Pig Iron or Steel, Lead Ore, Zinc Ore, Nickel Ore, Barite, Chromite, Feldspar, Titaniferous Ore.

Syllabus of Fire Assaying.

Gold and Silver.

For Extra-Mural Students.

Extra-mural students are required to do promptly the work set by the Tutor and will not be admitted to examination until this work is completed.

JUNIOR.

Books to be read:

Alex. Smith's General Chemistry for Colleges (The Century Co., New York).

Waddell's Arithmetic of Chemistry (The Macmillan Co., New York), Chapters I-V.

SENIOR.

Books to be read:

Walker's Physical Chemistry (Macmillan & Co., London).

Waddell's Arithmetic of Chemistry, Chap. VI to end.

Perkin & Kipping's Organic Chemistry, Part I and Part II, Edition 1908 (J. B. Lippincott & Co., Philadelphia).

MINERALOGY.

(Ontario Hall, third floor.)

PROFESSOR—William Nicol, M.A.

FELLOW—S. N. Graham, B.Sc.

For Intra-Mural Students.

Students in Mineralogy are expected to take part in the field excursions held during the Fall Term. Excursions are taken every Saturday, weather permitting, and on Saturdays when excursions cannot be taken, demonstrations in the museum will be given. The cost of the field work will not exceed five dollars.

Pass and Preliminary Honours may be taken in one year by students in Honours.

Students intending to take Mineralogy are advised to take Junior Chemistry, Junior Physics and Junior German before commencing it.

Each student in this department is supplied with a locked cabinet containing about 150 mineral specimens for which a cash deposit of ten dollars must be made and a receipt given, and an agreement made to return the minerals at the close of the session.

One of the rooms in connection with the Department of Mineralogy has been furnished as a study and consulting room for students in this department. The Professor or his assistant will be available for consultation at hours when classes are not being held. Systematic and illustrative collections of minerals, crystals and models are on exhibition, and students are urged to take advantage of the facilities offered.

The Department is furnished with a first-class lantern and projection apparatus.

Books from the Library of the Department of Mineralogy and from the Professor's private library may be obtained by application to the Professor.

MINERALOGY I.

Pass.

1. Elementary Mineralogy. Demonstrations with specimens and the lantern.
2. Description and determination of the following minerals:

Diamond, graphite, native arsenic, native silver, native gold, native copper, stibnite, molybdenite, cinnabar, galenite, chalcocite, malachite, azurite, sphalerite, niccolite, smaltite, chloanthite, pyrrhotite, bornite, chalcopyrite, pyrite, marcasite, arsenopyrite, halite, fluorite, quartz and prisms, corundum, hematite, magnetite, chromite, pyrolusite, psilomelane, limonite, calcite, dolomite, siderite, orthoclase, plagioclase, pyroxene and vars, olivine, amphibole and vars, garnet, tourmaline, nepheline, sodalite, stilbite, analcite, natrolite, muscovite, biotite, phlogopite, chlorite, serpentine, talc, sphene, scapolite, beryl, epidote, zircon, staurolite, apatite, barite, celestite, gypsum, coal and vars.

Text-book: *Miller's Minerals and How They Occur.

The class meets in the Mineralogy lecture-room, Ontario Hall, at 11 a.m., on Mondays.

3. Elementary Crystallography.

A course of about fifteen demonstrations given at the opening of the session.

Text-book: *Williams' Crystallography (Henry Holt & Co.).

4. Blowpipe Analysis—(a) A course of practical demonstrations to illustrate and explain the reactions in studying the chemical properties of minerals. (b) A practical class in which the experiments seen in the lectures are performed by the students.

Text-book: *Brush & Penfield's Determinative Mineralogy and Blowpipe Analysis, 1905.

Books for Reference:

Cornwall's Translation of Plattner's Manual of Qualitative and Quantitative Analysis with the Blowpipe, 7th Ed. (Van Nostrand Co.).

Cornwall's Manual of Blowpipe Analysis (Van Nostrand Co.).

Landauer's Blowpipe Analysis.

Endlich's Manual of Qualitative Blowpipe Analysis.

Moses & Parsons' Mineralogy, Crystallography and Blowpipe Analysis, 2nd Ed.

Students must supply their own blowpipe apparatus.

The class meets in the blowpipe lecture-room, Ontario Hall, on Friday afternoons, from 2 to 4 o'clock.

HONOURS.

Preliminary.

(A knowledge of French and German is desirable.)

1. Systematic Mineralogy, illustrated by specimens, charts, lantern-slides, etc., Tuesday and Wednesday, 11 a.m., and Practical Class at hours convenient for members.

Text-book: Dana's Text-book of Mineralogy, 1907 (Wiley & Sons).

Books for Reference:

Moses' Characters of crystals, 1899.	} In Library.
Miers' Mineralogy (Macmillan & Co.).	
Van Horn's General and Special Mineralogy.	
Naumann-Zirkel's <i>Mineralogie</i> .	
Tschermak's <i>Mineralogie</i> .	

2. Practical Crystallography.

Practical study of crystal forms by means of crystals, and wire and wooden models. Two demonstrations per week are given at hours to suit the members of the class.

3. Qualitative analysis of minerals by blowpipe and wet re-agents:—The course in Qualitative Analysis in connection with Preliminary Honour Chemistry and, in addition, the analysis of selected mineral samples to be secured by the students individually from the Professor. Written Reports of these must be handed in systematically.

Lectures on Qualitative Analysis.

Text-book: Fresenius' Qualitative Analysis.

Books for Reference:

Ostwald's Foundations of Analytical Chemistry (Macmillan & Co.).
Menschutkin's Analytical Chemistry (Macmillan & Co.).

4. Essays on prescribed subjects.
5. Lecturettes by the individual members to the class.

Final.

1. Descriptive Mineralogy.

Description and classification of the commonly occurring minerals, special attention being given to Canadian ores and rock-forming minerals. Study hours are arranged to suit members of class. Attendance compulsory. Tuesday, 8 a.m.

Text-book: Dana's System of Mineralogy, 6th Ed. (Wiley & Sons).

Books for Reference:

Chapman's Minerals and Geology of Ontario and Quebec, 3rd Ed. (Copp Clark Co.) (Library).

Commissioners' Report on Mineral Resources of Ontario, 1890. (Library).

Reports of Geological Survey. New series, 1885-1908. (Library).

Reports of Bureau of Mines. (Library.)

Poote's Catalogue of Minerals. (Library.)

2. Determinative Mineralogy.

Practical instruction in the determination of minerals by means of the blowpipe and by field tests. Tuesday, 1-3 p.m.

Examination of specimens from cabinets. Wednesday, 1 p.m. and Monday 4 p.m. Attendance compulsory.

Text-books: Brush & Penfield's Manual of Determinative Mineralogy and Blowpipe Analysis (1905).

Crosby's Tables for the Determination of Common Minerals.
Eakle's Mineral Tables.

3. Quantitative Analysis of Minerals (selected samples).

Text-book: Fresenius' Quantitative Analysis.

Lectures on Quantitative Analysis.

4. Economic Geology. (See under *Geology*.)

5. Petrography. (See under *Geology*.)

6. The use of heavy solutions in separating minerals for rock analysis.

7. Use of Contact and Reflecting Goniometer.

8. Drawing Crystals from Goniometric Measurements.

9. Courses of lectures on Economic Mineralogy and History of Mineralogy.

These lectures will be illustrated by lantern-slides, and will be delivered at hours convenient for the members of the class. Thursday, 8 a.m.

10. A series of demonstrations with compound microscope to show the beauties and interesting phenomena of microscopic mineral mounts in reflected light.

11. Essays to be handed in as follows:

Oct. 15, 1910—Mineralogy among the Greeks and Romans.

Oct. 30, 1910—Three Modern Mineralogists.

Nov. 15, 1910—The Diamond.

Nov. 30, 1910—Graphite and its uses.

Dec. 20, 1911—Dana's Principles of Classification.

Jan. 30, 1911—Quartz as a *mineral* and as a *precious stone*.

Feb. 28, 1911—The composition of the silicates.

Mar. 15, 1911—Gypsum in Ontario and the Gypsum Industry.

12. The investigation of a mineral or rock of economic or scientific importance.

Books for Reference:

The Mineral Industry. (Library, Geol. department).

Reports of Bureau of Mines, 1891-1909 (Library).

Transactions of Canadian Mining Institute.

American Journal of Science. (Library).

Wilmott's *Mineral Wealth of Canada*. (Library).

Books for Reading:

Hugh Miller's Works.

Lyell's Principles of Geology.

The Professor reserves the right to retain essays of merit for use in the library of the department.

For Extra-Mural Students.

Examinations are held *only* at the University.

In addition to essays and correspondence, extra-mural students are required to determine and describe the minerals in collections furnished by the lecturer.

For extra-mural students a collection of wooden crystal models may be obtained for two weeks by depositing five dollars with the Registrar, to be refunded when the models are returned. Application must be made early in the session for this collection so that it may be sent in turn to students.

Students Pay Express Charges.

A collection of rocks, minerals and fossils for illustrating Miller's "Minerals and How They Occur" will be sent by express to each extra-mural student as soon as the deposit of ten dollars has been made with the Registrar. This collection must be returned at the close of the session, when the deposit will be returned, less breakage and loss, if any. Express charges must be paid by students.

Text-books indicated by a star in the foregoing lists and a set of blow-pipe apparatus *must* be secured by the students.

Uglove & Co., Booksellers, Princess St., Kingston, will supply necessary books.

The lecturer in Mineralogy will send directions and material for blow-pipe work as soon as students have registered. Reports of progress must be made periodically to the lecturer. The examination held in April at the University only, is largely practical, and for this examination students must bring with them the apparatus used by them during the session.

GEOLOGY.

PROFESSOR—M. B. Baker, B.A., B.Sc.

ASSISTANT—B. Rose, B.Sc.

Students taking work in this department have access to the Geological and Mineralogical museum of Queen's University and the School of Mining, and to the Geological library and reading room.

The petrographical laboratory is supplied with electric power, diamond saws and other apparatus required in the preparation of thin sections of rocks and minerals for examination under the microscope.

The microscope room is provided with several instruments of the latest and most approved designs.

The chemical laboratory in connection with the Geological Department is supplied with the necessary equipment for the chemical investigation of rocks.

Pass.

(Students taking Geology, who have not or are not taking Pass Mineralogy, are required to attend the brief course of lectures on minerals delivered specially for Geology students at the beginning of the fall term.)

The following themes will be treated of in the lectures: The planetary relations of the earth; the atmosphere; water; solid crust; probable nature of the earth's interior; rocks; their general megascopic and microscopic characters and classification; volcanic action; earthquakes; upheaval; subsidence; geological effects produced by heat, air, water and life; bosses; dykes; veins; stratification; dip; strike; anticline and syncline; faults; foliation; nature and uses of fossils; stratigraphical geology; outline of geological history, with a few of the chief fossils of each geological period.

The lectures are illustrated by means of maps, diagrams and lantern views.

The laboratory work will consist of the examination of typical specimens of the different groups of fossil plants and animals, and of hand specimens of the more common rocks.

During the months of October and November excursions will be made to places of geological interest in the vicinity of Kingston. All students must join these excursions. The cost will not exceed five dollars.

Essays required on prescribed subjects.

Students are required to provide themselves with W. B. Scott's "Introduction to Geology," 2nd edition (the MacMillan Co., price \$2.60) is recommended.

Books for Reference:

Dana's Manual of Geology.

Le Conte's Elements of Geology (5th Ed. by H. E. Fairchild).

Chapman's Minerals and Geology of Central Canada.

Kemp's Hand-book of Rocks.

Extra-mural students are advised to read Le Conte's *Elements of Geology* (5th edition) or, Geikie's class-book of *Geology* (4th edition) and Norton's *Elements of Geology* (Ginn & Co.) They will also be required to write essays on prescribed subjects.

Students who are not taking Mineralogy are advised to pay particular attention to Chapter I of Scott's *Geology*, and to provide themselves with a collection of the principal rock-forming minerals.

HONOURS.

Preliminary.

(Students taking Preliminary Honour Geology are required to have taken Crystallography, Mineralogy I, and Mineralogy III, and are recommended to select German as the optional language.

Lectures every day at 10 a.m. on

Physical Geography, Petrography, Palæontology, Economic Geology, and General Geology.

The laboratory work will consist of the preparation of thin sections of minerals and rocks, and the microscopic determination of plutonic, dyke, and volcanic rocks. Hours to suit students' timetable.

The museum work will consist of the megascopic determination of rocks and the naming and classification of Canadian fossils.

Field work comprises observations upon weathering of rocks, shore phenomena; glacial phenomena; igneous; sedimentary and metamorphic rocks; faulting, folds; joints; cleavage. Practice in geological mapping and construction of sections; measuring the thickness of strata and determining the relative ages of geological structures. Essays are required on prescribed subjects. Candidates will also be examined on the following:

Davis', Page's or Geikie's *Physical Geography*.

Chapman's *Minerals and Geology of Central Canada*, Part IV.

Geology, Vol. I, Chamberlain and Salisbury.

Luquer's *Minerals in Rock Sections*.

Kemp's *Hand-book of Rocks*.

Books for Reference:

Wood's *Elementary Palæontology*.

Harker's *Petrology for Students*.

Text-book of Palæontology,—Zittel.

Manual of Palæontology,—Nicholson.
Dana's Text-book of Mineralogy.
Cole's Aids in Practical Geology.
Nature of Ore Deposits, Beck (Weed's Translation).
Ore Deposits, Kemp.
Reports of the Geological Survey of Canada and the United States

Students are advised to devote as much time as possible to field work during the preceding long vacation, and to collect material for study in the laboratory during the winter. Opportunities are usually afforded advanced students for engaging in field work during the summer vacation.

Final.

Lectures every day at 11 a.m., on—

Economic Geology.
Petrography.
Palæontology.
Geology of Canada.
Geology in its relations to Mining and Agriculture.

Practical Work:

Construction of Geological Maps and Sections, 3 hours per week to suit students' time-table.
Laboratory, Museum and Field work, 4 hours per week to suit students' time-table.

Candidates will also be examined on the following:

Chamberlain and Salisbury's Geology, Vols. I, II, and III.
Geikie's Text-book of Geology (4th Edition).
Dawson's Hand-book of Canadian Geology.
Geikie's Founders of Geology.
Zittel's History of Geology.
Kemp's Ore Deposits of the United States and Canada.
The Face of the Earth. Suess.
Applied Geology. Elsdon.
Climate and Cosmology. Croll.

Books for Reference:

Rosenbusch's Elements der Gesteinslehre.
Rosenbusch's Microscopical Physiography of Rock-forming Minerals.
Zirkel's *Petrographie*, Vols. I, II and III.
Harker's Petrology for Students.
Nicholson's Palæontology. (Eastman.)
Zittel's Text of Palæontology. (Eastman.)
Williams' Geological Biology.

Dawson's Ice Age in Canada.
Wright's Ice Age in North America.
Phillips' Ore Deposits.
Beck's Lehre von den Erzlagertstätten.
Genesis of Ore Deposits. Posepny.

Students are advised not to undertake the work in Final Honour Geology until they have acquired a sufficient knowledge of Chemistry and Mineralogy. They should be prepared to devote a large part of their time to the subject throughout the session. Each member of the class will be encouraged to undertake research work, for which the surrounding district offers exceptional opportunities.

Extra-Mural.

A corresponding tutor is engaged to communicate with extra-mural students taking Pass Geology. (See also p. 53.)

The work in Honour Geology being largely of a practical nature, must be taken intra-murally.

ART. XI—POST-GRADUATE DEGREES.

DOCTOR OF DIVINITY (D.D.)

This degree is honorary, and is awarded for literary or professional distinction.

DOCTOR OF LAWS (LL.D.)

This degree is honorary, and is awarded for literary, scientific or professional distinction.

DEGREE OF DOCTOR OF PHILOSOPHY (Ph.D.)

AND DOCTOR OF SCIENCE (D.Sc.)

1. Candidates for these degrees must comply with one of the following conditions:

(a) If they offer themselves for the degree of Ph.D. or D.Sc. in any two of the Arts subjects, they must previously have taken the degree of M.A. in these subjects, or must satisfy the Senate of their ability to proceed with the course.

(b) If they offer themselves for the degree of Ph.D. in one of the Arts subjects and either Old Testament Language and Literature or New Testament Language and Literature they must have previously obtained the degree of M.A. or B.A. with first-class honours in the Arts subjects chosen, have completed their course in Theology, and have passed the examination in half of the course for B.D.

2. The degree cannot be obtained in less than three years after the above conditions have been complied with. A year's resident work may be required at any stage of the course by the professors concerned in the work.

3. Work for the degree shall be carried on in two or more departments, the major, in connection with which the thesis shall be written, and one minor or two semi-minors in which the requirements of the examinations shall be of a less exacting character.

4. A candidate shall submit a thesis on some subject connected with their major courses, embodying the results of original investigation, a copy of which shall be submitted to the departments concerned not later than February 15th in the year of the final examinations. On approval of the thesis the candidate shall deposit with the Librarian fifty printed copies, or give a guarantee that these shall be deposited not later than one year after the degree has been conferred.

Publication of the thesis in any reputable journal, or in the transactions of any learned society, fifty off-prints of which shall be duly deposited with the Librarian, will be accepted as an equivalent.

5. Candidates for these degrees must make application through the Registrar to the Senate to be allowed to proceed with the course, stating the subjects they wish to offer, and must register either as intra or extra-mural students each session in which work is taken. For fees of intra-mural students see page 20, for extra-mural, 54. Extra-mural students in addition to the registration fee must pay a tutorial fee of \$5 per session for each subject.

6. The following conditions are laid down with regard to preliminary, interim and final examinations.

(a) There shall be at least one external examiner in each course, for the major subject and thesis.

(b) Preliminary qualifying examinations when required will be set by the Professor in charge.

(c) Interim and partial examinations, to be held before the third and last year, may be set and conducted by the Professor concerned in any course.

(d) Final examinations shall be conducted only during the ordinary sessional examinations and must be conducted within the University.

I. DEGREE OF PH.D.

LATIN.

The Ph.D. course in Latin is a continuation of the Honours work, but is more specialised and involves a more detailed use of original authorities. Latin may be taken as either a major or minor subject. Papers will be set on the following:

- (1) Composition.
- (2) Translation at Sight.
- (3) Roman History from 133 B.C. to 117 A.D.
- (4) Latin Literature.
- *(5) One of the following:—

(a) A special period or department of Latin literature studied in connection with original authorities.

(b) A special period or department of Roman history studied in connection with original authorities.

(c) Latin Palæography and Textual Criticism, with a special critical study of Plautus, *Rudens* and *Captivi*, and Lucan V., VII.

(d) Roman Archæology.

(e) The Italic Dialects and the History of the Latin Language.

All intending candidates should consult the Professor, who will be glad to give all necessary information and advice.

*Only for candidates taking Latin as a Major Subject.

GREEK.

Candidates for Ph.D. may offer Greek as a *minor* or as a *semi-minor* subject.

A *semi-minor* course includes:

1. A detailed study of select texts, namely, those prescribed in the Final Honours course, with additions.
2. A general knowledge of the Political and Literary History of Greece.
3. Unseen Translation and Greek Prose Composition.

A *minor* course includes the foregoing in a somewhat elaborated form, with the addition of,

1. A survey of Archæology in Greek lands.
2. Comparative Philology. For this part of the work such a manual as that of Giles is sufficient.

ENGLISH.

In English only a semi-minor course is offered. It consists of the work in section I, together with the work in either section II or section III, and is open only to those who have made seventy-five per cent. or over in Final English Honours.

I.

1. A minute knowledge of Anglo-Saxon Grammar and Phonology.
2. A careful study of the *Béowulf*, with essays on three of the following topics:—

(a) A study of Old English Heroic Poetry based on the *Béowulf*.

(b) The Art of the *Béowulf*.

(c) The Heathen and the Christian Elements in the *Béowulf*: their relation and significance.

(d) The *Béowulf* as a Representation of the Life and Beliefs of the Time.

(e) Myth and History in the *Béowulf*.

(f) Style and Vocabulary as a Test of Authorship in Anglo-Saxon Poetry.

II.

A general study of Chaucer and the relations which his work bears (1) to Old English poetry, (2) to the poetry of Northern France, (3) to Italian poetry. Candidates will write papers on two of the following subjects:—

1. The *Compleynte unto Pite* as a typical specimen of French Court Poetry, with attention to the conventional element and to the possible personal element.

2. Chaucer's handling of the ectosyllabic couplet in the *Book of the Duchess*; its technical and artistic qualities.

3. The influence of Dante in Chaucer's *House of Fame*.

III.

A special study of any two of the following works:—

1. Wordsworth's *Prelude*.

2. Carlyle's *Life of John Sterling*, or Carlyle's *Cromwell's Letters and Speeches*.

3. Tennyson's *In Memoriam*.

NOTE—Candidates are required to have a reading knowledge of French and German.

HISTORY.

The following sections of study are offered in History, four constituting a major, three a minor, and two a semi-minor. Section I is compulsory in all cases. The thesis may be chosen from any of the fields of study, but the presence of original material in the Canadian Archives and some of the greater American libraries makes the choice of American and Canadian themes preferable to any others.

I. The Earlier Constitutional History of England. Stubbs in his three volumes may be taken to cover the ground here; but more recent results must be studied in Maitland's constitutional volumes, especially *'Domesday Book and Beyond'*; J. H. Round's *'Feudal England'*; Chadwick's *'Origin of the English Nation.'* In addition to a general knowledge of the whole period, students will select detailed points for more special study:—*e.g.*, the constitutional documents of Henry II's reign; or "*Magna Carta*," with McKechnie's *'Magna Carta'* as guide; or *'The Development of Parliament under Edward I.'* Knowledge of Latin is essential here.

- II. A short period of British History, to be selected in consultation with the Professor of History, and to be studied from contemporary authorities. No recommendations are made, but the following are given as illustrations:—*The Reign of Henry VIII*, worked up (a) from calendars of state papers; (b) the Statutes of the Realm; (c) various social, political or literary documents such as More's *Utopia* and *His Life* by Roper, Cavendish's *Wolsey*, Thomas Cromwell's *Letters*, Strype's writing on the reign.

The Great Rebellion, with Gardiner's volumes as guide and the memoirs of the time, e.g., Clarendon's, Baillie's, Ludlow's as material. Knowledge would be expected also of Milton's controversial writings; religious writings like George Fox's autobiography; the Letters of Oliver Cromwell; and the chief constitutional documents of the time.

- III. A Period of European History, or a subject, equivalent to a period. If a period were taken—e.g., 1558-1598—the activities of all the great powers would have to be studied, and such minor matters as were connected with the great powers. If a subject were chosen, it would be such as these—The Florence of Savonarola and Machiavelli; the Sixteenth Century Seamen; the Jesuits in Europe; the development of the Modern German Constitution.

A knowledge of a foreign language, French, German, Italian, for example, is requisite here and certain books will be set in the particular language chosen.

- IV. *Comparative History of Colonization*. A study more especially of Spanish, English and French methods, from the sixteenth to the middle of the nineteenth century. One special branch must be chosen for detailed study; should it be British colonization, candidates will regard American history up to 1776 as part of their subject. Specialists in either Spanish or French colonization will naturally know the language essential to their study.

- V. *British India*. Mill's History (in its latest form) may be regarded as covering the ground, in conjunction with Mallett & Kaye's History of the Mutiny. Candidates must know the constitutional changes from the beginning onwards. The following biographies must be studied:—Warren Hastings's; Wellesley's; Dalhousie's; John Lawrence's; and recent developments ought to be known at first hand.

When candidates have been accepted by the Senate, they will write at once to the Professor of History stating what subjects they select and they will receive from him definite instructions with regard to texts, etc.

MENTAL AND MORAL PHILOSOPHY.

I. Candidates who desire to obtain the degree of Ph.D. in Philosophy alone are allowed the following options which count as two majors:—

A. They may offer any *four* of the following books:—

Plato: Theætetus, Republic, Sophist.

Aristotle: Organon (Selections of Oxford Press), Metaphysics (Selections), De Anima, Nichomachean Ethics, Politics, Poetics.

Kant: Kritik der reinen Vernunft, Kritik der praktischen Vernunft, Kritik der Urtheilskraft.

Hegel: Encyclopädie, I and III, Wissenschaft der Logik, any two books, Phänomenologie des Geistes, Philosophie des Rechts, Philosophie der Religion.

Ability to translate the books offered is presumed.

B. They may offer any *two* of the above books, together with the works of any *one* of the following authors: Rousseau, Comte, Schopenhauer, Lotze, Hartmann, John Stuart Mill, Herbert Spencer, T. H. Green, Henry Sidgwick, Edward Caird or F. H. Bradley.

C. They may offer any *two* of the above books, together with *one* of the following sections:—

(1) The Principle of logic. References: The logical treatises of Hegel, Mill, Jevons, Venn, Lotze, Sigwart, Bradley, Bosanquet and Joseph.

(2) The Principles of Psychology. References: The psychological works of James Mill, J. S. Mill, Bain, Wundt, Sully, Ladd, James, Adamson, Lotze and Stout.

(3) The Principles of Ethics. References: The ethical works of J. S. Mill, Bain, Sidgwick, Green, Bradley, Spencer, Stephen, Martineau and Caird.

(4) The Principles of Aesthetics. References: The aesthetic treatises of Aristotle, Kant, Schiller, Lessing, Hegel, Lotze, Schasler, and Ruskin.

D. They may offer any one of the authors mentioned above in Section B, together with one of the sections under C.

II. Candidates who combine a partial course in Philosophy with the work prescribed in another department may offer either (1) any *two* of the books mentioned above in I, A, or (2) the works of any one of the authors mentioned in I, B, or (3) one of the sections in I C. Any of these options counts as one major.

POLITICAL SCIENCE.

Candidates offering Political Science as their major subject will be required to take work within five of the following groups of study; candidates choosing it as their minor, within three groups. Where possible, the Canadian aspect of the problems considered will be especially stressed. Details of the reading and requirements in the various courses may be obtained from Professor Skelton or Professor Swanson.

1. Economic Theory: Scope and Method, Value and Distribution.
2. Finance: Money, Banking, Insurance Corporations and Corporation Finance.
3. Commerce and Transportation: Economic History and Geography, Trade, Tariffs, Railroads.
4. Public Finance and Taxation; Statistics.
5. Political Theory: English and American Theories since the 17th century.
6. Comparative Government, national and municipal, structure and working.
7. Jurisprudence, Constitutional Law, International Law and Diplomacy.
8. Anthropology and Social Origins.
9. Social Problems; the Labour Movement; Socialism.

OLD AND NEW TESTAMENT LANGUAGE AND LITERATURE.

1. Candidates must take note that the amount and quality of the work demanded for this degree will, in the judgment of the Faculty, require three years' post-graduate work at the University, or six years' extra-mural work.
2. Candidates are required to present a thesis on a subject chosen from their *Major* Course and approved by the Professors of the department.

OLD TESTAMENT LANGUAGE AND LITERATURE.

The candidate will be required to show to the Examiners, by means of critical essays and examination papers, that he possesses comprehensive and accurate knowledge in the following departments :

A.—Major Course.

- (1) Languages ; Hebrew and Aramaic.

Unseen Translation.

Hebrew Composition.

(2) History ; the history of Israel to the year 141 B.C. Outline of the history of Egypt and Babylon, in so far as these bear on the history of Israel.

(3) Literature ; the contents and character of the books of the O. T. and of the following books :—Ecclesiasticus, Maccabees, I and II ; Esdras, I and II ; Baruch, Tobit, the additions to Daniel.

(4) O. T. Theology or history of the Hebrew religion down to 141 B.C.

(5) Criticism, textual, literary and historical. In this department papers will be set on books, or portions of books, representing all classes of Hebrew Literature, historical, poetic, prophetic, etc. The quantity of this work will be arranged with each candidate after consultation with the Professors involved in his course. A list of books and suggestions as to methods of work may be had on application to Prof. W. G. Jordan.

B.—Minor Course.

1. History ; the history of Israel to the year 141 B.C. Outline of the history of Egypt and Babylon, in so far as these bear on the history of Israel. (Two papers).

2. Literature ; the contents and character of the books of the O. T. and of the following books :—Ecclesiasticus ; Maccabees, I and II ; Esdras, I and II ; Baruch ; Tobit ; the additions to Daniel. (Two papers).

3. O. T. Theology or history of the Hebrew religion in the post-exilic period. (One paper).

4. Criticism, textual, literary and historical. In this department papers will be set on books, or portions of books, representing all classes of Hebrew Literature, historical, poetic, prophetic, etc. In quantity about fifteen chapters of Hebrew will be required. (Three papers). The assignment of this work will be arranged with each candidate after consultation with the Professor of the Old Testament department.

NEW TESTAMENT LANGUAGE AND LITERATURE.

For Minor omit all marked *

1. The Language of the Greek N. T.

(1) A knowledge of the characteristic differences between classical Greek and the *κοινή* or Greek of the N.T.

Books to be consulted:

*Blass' Grammar of the Greek N. T.

Moulton's Grammar of the Greek N. T. Vol. I.

Deissmann's Bible Studies, English ed.

*Kennedy's Sources of the N. T. Greek.

*(2) Translations of selections from the Papyri of B.C. 200-150 A.D. required.

The Tebtunis, Oxyrhynchus, Amherst, Grenfell and Hunt's Greek Papyri may be consulted in the Library.

Two papers for Major; one for Minor.

2. History: Jewish and General History from the time of Alexander the Great to the end of the 2nd century. Two papers for Minor; four for Major.

3. Literature:—

*Book of Daniel.

The Ethiopic Book of Enoch, ed. and transl. by Charles.

*The Book of the Secrets of Enoch, ed. by Charles.

The Book of Jubilees, Charles.

Apocalypse of Baruch, Charles.

*Ascension of Moses, Charles.

*Assumption of Moses, Charles.

Psalms of Solomon, edited by Ryle and James.

Critical History of doctrine of future life in Israel, Judaism and Christianity. R. H. Charles.

*Schurer's Jewish People in the time of Jesus Christ, Div. II, Vol. III.

*Philo-Judaeus or the Alexandrian Philosophy, by James Drummond.

Four papers for Major, two for Minor.

4. Theology of the N. T.

Stevens' N.T. Theology.

For Minor pp. 1-312. One paper for both Major and Minor.

5. Criticism and Exegesis of the Gospel according to John,* Galatians, Ephesians, Philippians, Colossians, Hebrews.*

The Synoptic Problem* and the Johannine question.*

Two papers for Minor, four for Major.

Books:—Burkitt's Gospel History and its transmission, Sanday's Criticism of the Fourth Gospel, Armitage Robinson's Study of the Gospel, Harnack's Lukas der Arzt (Eng. transl.), Articles in Hastings' Bible Dictionary and Encyclopaedia Biblica.

Drummond's Character and Authorship of the Fourth Gospel.

Moffatt's Historical New Testament.

Bacon's Introduction to the New Testament.

Expositor's Greek Testament Commentary on John, Gal., Eph., Phil., Col.

Armitage Robinson Com. on Eph.

International Crit. Com. on Gal., Eph., Phil., Col.

Westcott, Com. on John, on Heb.

History of N. T. Textual Criticism is expected. Kenyon's Textual Criticism is recommended.

II. DEGREE OF D.Sc.

I. Course for the Degree of D.Sc. in Chemistry, Mineralogy, Biology and Geology.

Candidates are required to have a thorough knowledge, practical and theoretical, of the subjects in one of the following divisions:

1. Chemistry—one of the following groups:

A. Inorganic Chemistry.

B. Organic Chemistry.

C. Physical and General Chemistry.

2. Mineralogy.

- (1) Systematic Mineralogy.
- (2) Mineralogy in its relation to Chemistry and Geology.
- (3) Petrography.
- (4) Ore Deposits.
- (5) Determinative Mineralogy.
- (6) Assaying.
- (7) Economic Mineralogy of Canada.

3. Biology.

Comparative Anatomy and Physiology, Chemistry of Ferments, Bacteriology, with either of the following groups:

- I. (1) Research in Vegetable Morphology or Physiology or Ecology.
- (2) A practical acquaintance with the Cryptogamic Flora of Canada.
- II. (1) Animal Physiology and Embryology.
- (2) Osteology and Odontography of Vertebrates.
- (3) Special Study of Invertebrates (Canadian).
- (4) Physiological Chemistry.

A thesis containing original work done in one of these subjects.

4. Geology.

Standing equivalent to Preliminary Honours in Chemistry and Final Honours in Mineralogy will be required of candidates in this department.

Either of the following groups may be chosen by a candidate as his *chief subject*, and he will be required to take the other group as a *subordinate subject*:

- (1) Dynamical Geology and Petrography.
- (2) Stratigraphical Geology and Palæontology.

The candidate will be expected to show an acquaintance with his subordinate subject equivalent to Honours in the undergraduate course. An intimate knowledge of the chief subject must be shown.

Detailed information to be obtained from the Professors.

FACULTY OF THEOLOGY.

(I) General Announcement.

The course in Theology extends over three sessions of six months each, and embraces the following subjects of study: Apologetics, two sessions; Systematic Theology, Old and New Testament Criticism and Exegesis, Church History, each three sessions; Practical Theology, two sessions. Junior Hebrew and Senior Hebrew, each one session, for those who have not included them in their Arts course.

2. The student who desires to enter upon the study of Theology must be a graduate of this University or of a University whose degrees are recognized by the Senate; or he must have completed three years of a university course, prescribed by the General Assembly as follows:—

First Year:—Latin, Greek, English, Mathematics, and Biology, or Chemistry, or Physics.

Second Year:—Latin, Greek, English, Logic, Philosophy, (Psychology), and Ancient History or Political Economy.

Third Year:—English (or a modern language), Mental and Moral Philosophy, History (Mediaeval or Modern), Hebrew. It is strongly recommended that two years of Hebrew be taken in this course. In this scheme the order of subjects may be changed.

3. Students are expected to have passed the Junior Hebrew class, and are recommended to take a full course in Arts, and to obtain a degree, before entering upon the study of Theology.

An Arts course, as here recognized, must embrace the study of Greek.

4. Students on entering Theology, or on intimating their purpose to study for the ministry, must be in full communion with the Church; and all such students are required, during their course, to be in communion with a congregation of the Church in Kingston.

5. At the beginning of each session each student must present a certificate to the Secretary of the Faculty from the Presbytery within whose bounds he has resided during the summer vacation; and at the close of each session he shall, at the earliest opportunity, present his certificate to the Presbytery within whose bounds he purposes to reside.

6. The Church requires the following discourses to be delivered during the course:—(a) A homily, (b) A popular sermon, (c) A lecture, (d) A Greek and a Hebrew Critical Exercise.

7. Testamurs in Theology are given to students who have passed the sessional examinations on all the subjects prescribed by the General Assembly for students for the ministry.

8. Pass and B.D. examinations are held annually in April and October, and supplementary examinations only in October.

9. Benefactors have placed at the disposal of the Principal a few nominations, exempting from payment of class fees throughout the course in Arts, for intending students of Theology who have matriculated and who shall take their full course at Queen's. Application for these should be made to him or to the Registrar before Oct. 1st.

The Stewart bequest of \$5,000 to the Theological Department will be administered by the Faculty in terms of the will.

10. For further information see Blue Book of the Church, or apply to Rev. Dr. Ross, Dean of the Faculty.

(2) *Matriculation.*

Matriculation examinations begin on Friday, Oct. 28th. Candidates must give notice to the Secretary of the Faculty before Oct. 5th, accompanied by a Presbyterial certificate.

Subjects of Examination:

Examination papers will be set in the following departments:

1. The Shorter Catechism and the contents of the Gospel of Matthew and the Epistle to the Romans, in English.
2. Acts of the Apostles, I-XII in Greek, Dods' Introduction, 76-151.
3. HEBREW—The Article, Pronouns, Inseparable Particles, the Qal of Regular Verb, Grammatical Analysis, Ps. I, I Sam. IX.
ENGLISH—Amos I, VII, Hos. I-II, Isaiah I, VI, VII, Micah I-III, Jordan's Prophetic Ideas and Ideals, pp. 108.
4. The Acts of the Apostles in the R. V., and Bartlet's Early Church History, pp. 1-66.
One paper will be set in each department.

I.—SYSTEMATIC THEOLOGY.

PROFESSOR—Principal Gordon.

The course in Systematic Theology, including O.T. and N.T. Theology, extends over three sessions. Lectures will be given during session 1910-11, on:

Christ and the Individual Believer. The Work of Grace.

Christ and the Church. The Means of Grace.

Text-book: Van Oosterzee's *Christian Dogmatics*, Chapters V and VI.

NEW TESTAMENT THEOLOGY. Lectures by Professor Scott.

OLD TESTAMENT THEOLOGY. Lectures by Professor Jordan.

II.—HEBREW.

PROFESSOR—Rev. W. G. Jordan, B.A., D.D.

ASSISTANT PROFESSOR—Rev. H. T. Wallace, B.A., Ph.D.

Junior Hebrew.

Davidson's Hebrew Grammar, exercises in the first twenty chapters, the Regular Verb, pp. 164-5.

Psalms I and CIII, Genesis I, I Samuel IX-XI.

Senior Hebrew.

Davidson's Grammar, exercises in chapters 20 to 38 inclusive, the Irregular Verbs.

Hebrew Syntax; the class lectures.

Job I-V, Ps. LI and LXXII, I Kings XVII-XIX.

III.—APOLOGETICS.

PROFESSOR—Rev. D. Ross, M.A., D.D.

The course in this class extends over two sessions, and must be taken during either the first and second, or second and third years of the Theological curriculum.

Students who have already taken Honours in Philosophy are exempted from one year's attendance.

1. Lectures on Apologetics from the beginning of the 16th century.
2. Lectures on Fundamental Apologetics.
3. Examination of Bruce's Apologetics, Introduction and Book I.

IV.—O. T. CRITICISM AND EXEGESIS.

PROFESSOR—Rev. W. G. Jordan, B.A., D.D.

The course in this class extends over three sessions, that of the Honour Class over two sessions.

Pass, Course: Exegesis. Selections from the Prophetic Books.

Criticism. Prophecy and the Prophetic Literature.

Honour Course: Hebrew: Isaiah XL-L.

Exercises in Davidson's Grammar, 38 to the end.

Daniel, especially the portions in Aramaic.

V.—N. T. CRITICISM AND EXEGESIS.

PROFESSOR—Rev. D. Ross, M.A., D.D.

The course in this class extends over three sessions. Students who have taken first class Honours in Greek are exempted from one year's attendance on the Pass class, but must during that year take the Honour N.T. class.

Selections from the four Gospels.

Commentary: Expositor's Greek Testament and International Commentaries.

Kenyon's Textual Criticism, Burton's N. T. Moods and Tenses.

Lectures on Introduction and Criticism.

Honour Course: Epistles to the Romans and Hebrews.

VI.—CHURCH HISTORY AND HISTORY OF DOGMA.

PROFESSOR—Rev. E. F. Scott, M.A., D.D.

The course in these classes extends over three sessions. Lectures will be given during the session 1910-II, on:

The History of the Church in the Reformation Period and in Modern Times.

Luther's Primary Works: Wace and Buckheim.

HONOUR CLASS.

The Apostolic Fathers edited by Lightfoot.

VII.—PRACTICAL THEOLOGY.

PROFESSOR—Rev. Robert Laird, M.A.

The course in this class extends over two sessions.

Lectures on: 1. The Church—its Constitution, Organization and Ministry. 2. Public Worship. 3. Preaching. 4. Religious Education. 5. Pastoral Care. 6. The Church in Relation to Ethical and Social Problems. 7. Missions.

Practical training in the conduct of Worship and Homiletics.

VIII.—ENGLISH BIBLE.

LECTURERS—*Old Testament*: Professor Jordan.

New Testament: Professor Scott.

Students in Theology and students in Arts looking forward to the ministry are expected to attend these classes. All other students are invited to attend.

O. T. Part I. The Pentateuch, early history and histories of the Divided Kingdom down to the time of the writing Prophets.

N. T., Part II. The Acts and Epistles.

Classes open to Theological students who have an elementary knowledge of the German language, are conducted by Professors Scott and Jordan.

Degree of Bachelor of Divinity.

REGULATIONS.

1. Candidates for the Degree of Bachelor of Divinity, (B.D.), must be graduates in Arts in this University, or of a University whose degrees are recognized by the Senate, and must follow the prescribed order of classes in Theology.

2. The degree shall not be conferred until the candidate has completed the theological curriculum with a view to the ministry in the church to which he belongs, and has passed a satisfactory examination in the branches of Theology taught in the University.

3. The divisions of the examinations shall be (1) The Holy Scriptures. Candidates will be expected to show a competent knowledge of the contents of the Old and the New Testaments, and to show special acquaintance with at least one book from the O. T. and one from the N. T. The Revised Version should be used. (2) O. T. Criticism and Introduction, Hebrew and Aramaic, or N. T. Criticism, Exegesis and Introduction. (3) Any one of the following:

(a) The subject not taken under (2).

(b) Systematic Theology.

(c) Church History and History of Dogma.

(d) Apologetics and Comparative Religion.

Two papers will be set in (1) and four papers in each of the other divisions.

4. Candidates who have completed the Theological course may be examined in all the subjects, or may defer their examinations in any subject.

5. Students may be admitted to examination in only one division at the end of the second session of their theological course.

6. Students must make 60 per cent. in the Pass examinations of subjects not included in their B.D. course, and 67 per cent. in each of the ten papers of the B.D. course.

7. A candidate may, subject to the preceding regulations, appear at any University examinations in Theology, provided he gives three week's notice of his intention to the Registrar and pays the examination fee.

Autumn examinations begin on Friday, Oct. 28th. Candidates must give notice to the Dean of the Faculty before Oct. 5th.

Subjects of Examination:

- I. The Holy Scriptures. The contents of the Old and New Testaments generally with a special knowledge of Isaiah and St. Mark, in the Revised Version.

Books recommended:

Bennett's Primer of the Bible, or Kautzsch's Outlines of O. T. Literature.

Driver's Isaiah.

Menzies' The Earliest Gospel.

- II. Hebrew and Aramaic. O. T. Introduction and Criticism.

(a) General Introduction to the O. T. Literature.

(b) Criticism and Exegesis. Deuteronomy IV-XII and Isaiah XL-L.

(c) Aramaic, The Book of Daniel.

There are two papers in division (b) and one each in (a) and (c). Extra-mural candidates may substitute for (c) Gen. I-IV.

Books to be consulted:

Introduction:—Driver: O. T. Introduction. McFadyen: An Introduction to the O. T. Bennett and Adeney: A Biblical Introduction. Jordan: Biblical Criticism and Modern Thought.

Hexateuch:—Gunkel: Legends of Genesis. Ryle: Early Narratives of Genesis. Duff: Abraham. Bacon: Genesis of Genesis. Driver: The Book of Genesis. Dillmann: Genesis. Carpenter and Battersby: The Oxford Hexateuch. Gordon: Early Traditions of Genesis.

History and Historical Books:—H. P. Smith: O. T. History. Cornill: History of Israel. McFadyen: Messages of the Prophetic and Priestly Historians.

Prophetic Books:—Jordan: *Prophetic Ideas and Ideals*. Skinner: *Isaiah I-XXXIX* (Camb. Bible). Skinner: *Isaiah, XL-LXVI* (Camb. Bible). Cornill: *Prophets of Israel*. Driver: *Isaiah and Cheyne: Jeremiah* (Men of the Bible).

Poetical Books and Aramaic —A. B. Davidson: *The Book of Job* (Camb. Bible). G. G. Bradley: *The Book of Job*. Cheyne: *Origin of the Psalter*. Driver: *Daniel* (Camb. Bible). Ryle: *Ezra and Nehemiah* (Camb. Bible).

III. N. T. Criticism, Exegesis and Introduction.

1. Canonics.

Gregory: *Canon and Text of the N. T.*

2. Textual Criticism, MSS., Versions and principal disputed passages.

Kenyon's *Textual Criticism*.

Westcott and Hort, *Greek N. T. Introduction*.

3. Introduction, Salmon, Weiss, *Expositor's Greek Test*, Articles in *Hastings' Bib. Dictionary* and *Encyclopedia Biblica*.

4. Exegesis. Epistles to the Romans and Hebrews.

Commentaries: *International Crit. Com.* and *Expositor's Greek Test on Romans*. Westcott on *Hebrews*.

IV. Systematic Theology.

(a) *The Christian Conception of God*; Caird's *Fundamental Ideas of Christianity*, Brown's *Outline*, pp. 81-155, Clarke's *Outline*, pp. 63-181, Van Oosterzee's *Christian Dogmatics*, pp. 234-354.

(b) *The Christian Doctrine of Sin*; Tulloch, Müller, Vol. I.

(c) *The Atonement*; McLeod Campbell, Dale, Lidgett, Moberley.

(d) *The Church*; Hatch's *Early Organization*, Hort's *Ecclesia*.

V. Church History and History of Dogma.

(a) Lightfoot's *Apostolic Fathers*. (two papers).

(b) Allen's *Christian Institutions*. (Two papers).

Books to be consulted:

Neander's *Church History*, Vols. I, II; Ramsay's *Church in the Roman Empire before A.D. 170*, part II; Dorner's *Doctrine of the Person of Christ*, Vol. I; Forrest's *Christ of History and Experience*; Hooker's *Laws of Ecclesiastical Polity*, Book V. sections 50-57.

VI. Apologetics and Comparative Religion.

(a) Philosophical and Historical.

Fraser: *Philosophy of Theism*. (Gifford Lectures).

Caird: *The Evolution of Religion*. (Gifford Lectures.)

Bruce: *Apologetics*.

(b) Comparative Religion.

Grant: *The Religions of the World*. Menzies: *History of Religion*.

FACULTY OF LAW. DEGREE OF LL.B.

1. This degree will not be conferred upon any undergraduate or upon any graduate in Arts of less than one year's standing.

2. Graduates who have taken the honour courses of this University in History and Political Science may proceed to the degree by passing on the following works:—

Commentaries of Gaius, Abdy and Walker.

Institutes of Justinian. Sandars.

Harris' Principles of Criminal Law. Also Canadian Criminal Code, with amendments.

Maxwell's Interpretation of Statutes. Also Interpretation Acts, in Revised Statutes of Canada and Ontario.

Westlake's Private International Law. T. A. Walker's International Law.

O. W. Holmes' The Common Law. Dicey's Law of the Constitution.

Goodnow's Comparative Administrative Law.

Houston's Constitutional Documents of Canada.

3. Barristers-at-Law or persons who have been admitted as students-at-law by the Law Society of Upper Canada and have passed their second Intermediate Examination will be admitted to the degree by passing on the honour course of this University in History and Political Science together with the works in section 2.

4. Graduates in Arts of this or any recognized University, being Barristers-at-Law, will be admitted to the degree by passing on the following works in addition to those specified in section 2:—

Bryce's American Commonwealth, Vol. I.

Stubbs' Constitutional History of England.

Bagehot's English Constitution.

Dicey's Law and Public Opinion in England.

Holland's Elements of Jurisprudence. Maine's Ancient Law.

5. Candidates are required to send notice to the Registrar, before the first day of March, of their intention to present themselves at any of the examinations.

6. Attention is directed to the prize offered (page 48) for the best thesis by an LL.B. candidate, based on consultation of American and English Annotated Cases, on the subject. The Specific Performance of Contract.

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